

# SEQUENCE LISTING

<110> Hansen, Rhonda

<120> GENE PRODUCTS DIFFERENTIALLY EXPRESSED  
IN CANCEROUS BREAST CELLS AND THEIR METHODS OF USE

<130> 22300-21052.00

<140> 10/501,187

<141> 2006-01-13

<150> PCT/US03/00657

<151> 2003-01-08

<150> 60/345,637

<151> 2002-01-08

<160> 523

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 114

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 70

<223> n = A,T,C or G

<400> 1

catcctcgga cgccagcaag gtgacctcta agggggcagg gctctcaaag gcctttgtgg 60  
gccagaaggn aaggttcctt cctgggtggac tgcagcaaaag ctggctccaa catg 114

<210> 2

<211> 430

<212> DNA

<213> Homo sapiens

<400> 2

gggactcgcc acctcctctt gcaccctctg caggccccagc agccaccaca gcgcctgctt 60  
cctcgggccct gaaatcatgc ccctaggtct cctgtggtgt ggccttagccc tgttgggggc 120  
tctgcattgc caggccccagg actccacctc agacctgata ccagcccccac ctctgaacaa 180  
gggtccctctg cagcagaact tgcaggacaa ccaattccag ggggaagtgt atgtggtacg 240  
cctggcaggg aatgcaatto tcagagaaga caaagaccgc caaaagatgt atgccaccat 300  
ctatgagctg aaagaagaca agagctacaa tgtccacctc gtcctgttta ggaaaaagaa 360  
gtgtgactac tggatcacga cttttgttcc aggttgccag cccggcgagt tcacgctggg 420  
caacattaag 430

<210> 3

<211> 527

<212> DNA

<213> Homo sapiens

<400> 3

```
ctgctaatac agccctggct gtggaatcct tcaccgtctc agctgggtac agccccagcc 60
tgccttgtgc catatctcag cttggatctc tgctagagtc cccccaacca tatatcatag 120
agttgaatca caatgagacc gttggctttg aatttgagtc gttgggtccc atggtgagat 180
gcttggttaag accttatact tgggtcaatc tctcaactta tttttagaaa ccatttgaaa 240
tcctaggatg tgcttgttct ggaaggatga catgggcccc gactgaacaa gtcagcttga 300
tgatcttaaa tgatggaagt ataggacgtt gcttatttta aaacaaggga aggacacaaa 360
atggaatgac tgcttagtcc tttctcagat actotaaaa caatttttta ttgttaaatt 420
tgtgtgtaaa catggtccaa accgtggatc aaacaaggtc agtctaaagt ggcaggtcct 480
agggttgacc tgataccacc accctttgtg gcagcaccgg gctggac 527
```

<210> 4

<211> 262

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 186, 188

<223> n = A,T,C or G

<400> 4

```
ccggcctcgt ggaccagcct gggctctcgc tggaggaaat ggcttgcaag gaggcttggg 60
aggagtgtgg ctaccacttg gccccctctg atctgcgcgc ggtcgccaca tactggtctg 120
gagtgggact gactggctcc agacagacca tgttctacac agaggtgaca gatgccacgc 180
gtacgntncc aggtgggggc ctggtggagg aggggtgagct cattgaggtg gtgcacctgc 240
ccctggaagg cgcccaggcc tt 262
```

<210> 5

<211> 201

<212> DNA

<213> Homo sapiens

<400> 5

```
gccactgaaa atccttgtta aaaaccagat cacaaatctg gggctcttgg tccatttga 60
gaaggaaagga agagcctcaa aataagtgtg caccatgca catattcagg aacagcttgc 120
ttagttctta cactttgcct gaaaagttgct tctcctcctc cctttgtgtg cctgggtggc 180
ctcgccctcg tgcgttgga a 201
```

<210> 6

<211> 621

<212> DNA

<213> Homo sapiens

<400> 6

```
tgagggtccc cgctcagctc ctggggctcc tgctactctg gctccgaggt gccagatgtg 60
acatccagat gaccagctct ccactcctccc tgtctgcac tgttggagac agagtccaca 120
tcgcttgcgc ggcaagtccag agcattggca tctatttaaa ttggatcaaa caaaaaccag 180
ggaaagcccc taaactcctg atctatgatt catccagatt gcaaatgtgg gtcccatcaa 240
ggttcagtgg cagtgaggat gggacacact tcaactcacc catcagcagt ctgcaacctg 300
aagatttagc aacttactac tgtcaacaag ggtacagtac acctggccac ttccggccat 360
ggacacgact ggaaattaaa cgaactgtgg ctgcaccatc tgtcttcac ttcccgcat 420
ctgtagagca ttggaactgt ggaactgcct ctgttgtgtg cctgctgaat aactctatc 480
ccagagaggc caaagtacag tggaaaggtg ataacgccct ccaatcggtg aactcccagg 540
aggggtgtca cagagcagga cagcaaggac agcactaca gcctcagcag caccctgacg 600
```

ctgagcaaaag cagactacga g

621

<210> 7

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7

gacagcatgg	acatgagggt	ccccgctcag	ctcctggggc	tectgtact	ctggctccga	60
gggtgccagat	gtgacatcca	gatgacccag	tctccatcct	ccctgtctgc	atctgttgga	120
gacagagtca	ccatcgcttg	ccgggcaagt	cagagcattg	gcctctattt	aaattgggtat	180
caacaaaaac	cagggaaaagc	ccctaaaactc	ctgatctatg	attcatccag	attgcaaagt	240
ggggctccat	caagggttcag	tggcagtgga	gggtgggacac	acttcactct	caccatcage	300
agttctgcaac	ctgaagattt	agcaacttac	tactgtcaac	aagggtacag	tacacctggc	360
accttcggcc	aagggacacg	actggaatt	aaacgaactg	tggctgcacc	atctgtcttc	420
atcttccgc	catctgatga	gcagttgaaa	tctggaactg	ccctctgtgt	gtgctgtctg	480
aataactct	atccccagaga	ggccaaaagta	cagtgggaagg	tggataacgc	ctccaatcg	540
ggtaaactc						548

<210> 8

<211> 430

<212> DNA

<213> Homo sapiens

<400> 8

tatacacaaac	attttatttca	aactatttggg	agggatgaga	gtggctttaa	aacttccatc	60
cctacttttcc	aagagtgcag	ttgattctga	atctgaaaagc	ccgcctctgt	cctaaaaaac	120
aaacaagcac	agacattaaa	cctggatact	atatgataaa	gagggatgta	actattgaa	180
tggatacaag	gatcagaatg	gaaagaaact	cacgatgaaa	ttgaacctgg	ttttgtgata	240
tttatcaaac	tttgtctgag	aatagtgtct	gattatacga	cttttaagca	aagttgggtg	300
taattaggtg	aaaacagccc	aggtcctccc	gggagcacag	aggggctagg	ggctggctct	360
tctcgtttgc	tctagtcttg	ctttgctgtc	tgggtgtagct	ccctctgctgc	tcccatctgc	420
actaattgac						430

<210> 9

<211> 493

<212> DNA

<213> Homo sapiens

<400> 9

ctcactattt	ggaatttggc	cctcgaggcc	aagaattcgg	cacgaggcgg	cacgagggtg	60
aactatttga	ttggatcaaa	ggatcagaat	ggaaagaaac	tcacgatgaa	attgaaacctg	120
gtttttgtat	attttacaaa	cttgtctctga	gaatagtgtc	tgattatacg	acttttaagc	180
aaagtgtggg	gtaattaggt	gaaaacagcc	caggtcctcc	cgggagcaca	gaggggctag	240
gggctggctc	ttctcgtttg	ctctagtctt	gctttgctgt	ctgggtgtagc	tcctctgctg	300
ctcccatctg	cactaattga	ccccaaaactg	gggtatttcc	tgctacacaa	aaggccaaaag	360
gtttcatgta	gatttttagt	cactaaaagg	tgcccacaaa	atagagatta	atttttaactt	420
aaatttttaag	cttgaagatt	aggctactatc	tgtgaagtta	cacttttttt	tttttttttaa	480
aaggaaaaaa	tgt					493

<210> 10

<211> 472

<212> DNA

<213> Homo sapiens

<400> 10

cggcacgagg	tgtaactatt	gaattggata	caaggatcag	aatggaaaag	aactcacgat	60
------------	------------	------------	------------	------------	------------	----

```

gaaattgaac ctggtttttg tatattttat aaacttgtgc tgagaatagt gtctgattat 120
acgactttta agcaaaagtgt ggtgtaatta ggtgaaaaca gccagaggtcc tcccggggagc 180
acagagggggc taggggctgtg tccttctcgt ttgctctagt cttgctttgc tgtctgggtgt 240
agctcctctg ctgctcccat ctgcactaat tgacccaaaa cgtgggtatt tccgtctaca 300
caaaagccaa aagggtttcat gttagatttta gttcactaaa ggggtgccac aaaaatagaga 360
ttaattttaa cttaaatatt aagcttgaag attaggtact atctgtgaag ttacactttt 420
ttattttttt ttaaaggtag agatgtgtgt gtgtgtaggt attaaagatg tg 472

```

```

<210> 11
<211> 271
<212> DNA
<213> Homo sapiens

```

```

<400> 11
gtttttcttt tttttataca caacattttat ttcaaaactat tgggagggat gagagtggct 60
taaaaaacttc catccctact tttcaagagt gcagttgatt ctgggggggga aagcccgccct 120
ctgtcctctaaa atacaaacaa gcacagacat taaacctgga tactatatga taaagagggga 180
tgtaactatt gaattggata caaggatcag aatggaaaga aactcacgat gaaattgaac 240
ctgggttttg tatattttat aaacttgtgc t
271

```

```

<210> 12
<211> 343
<212> DNA
<213> Homo sapiens

```

```

<400> 12
gtttttcttt tttttataca caacattttat ttcaaaactat tgggagggat gagagtggct 60
taaaaaacttc catccctact tttcacgagt gcagctgatt ctgaactctga aagcccgccct 120
ctgtcctctaaa atacaaacaa gcacagacat tagacctgga tactatatga tacagagggga 180
tgtaactatt gaattggata caccggtatc aatggaaaga aactcacgat gaaattgaac 240
ctggcttttg tatattttat aaacttgtgc tgagaatagc gcctgattat acgactttta 300
agcaaaagctg ggtgtaatta ggtgaaaaa gccacagctcc tcc 343

```

```

<210> 13
<211> 345
<212> DNA
<213> Homo sapiens

```

```

<400> 13
agtggcgagc aggttccccc ttgccaaaaga tcccttttaa ccaacactag ccttctgttt 60
taacacacgc tccagccctt catcagcctg ggcagctcta ccaaaatggt taaagtgtac 120
tcagagggggc ccatggatta acgcccctcat cccaaggctcc gtcccattgac ataactctcc 180
acacccgccc cagccaaact catgggtcac tttttctgga aaataatgat ctgtacagac 240
aggacagaat gaaactcctg cgggtctttg gcctgaaagt tgggaatggt tgggggagag 300
aagggcagca gcttatttgt ggtcttttca ccattggcag aaacg 345

```

```

<210> 14
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<400> 14
ttttccaaagt ccgtttcagt ccttctcctg gtctgaagaa attctgcagt ggcgagcagt 60
tttccacttg ccaaaagatcc cttttaacca acactagccc ttgtttttta cacacgctcc 120
agcccttcac cagcctgggc agtcttaacca aaatgtttta agtgactcca gagggggccca 180
tggtattaacg cctcatccc aagggtcgtc ccatgacata acactccaca ccgccccag 240
ccaacttcac gggctcactt ttctggaaaa taatgatctg tacagacagg acagaatgaa 300

```

```

actcctgcgg ctctttggcc tgaaagttgg gaatggttgg gggagagaag ggcagcagct 360
tattggttgt cttttcacca ttggcagaaa cagtgagagc t 401

```

```

<210> 15
<211> 442
<212> DNA
<213> Homo sapiens

```

```

<400> 15
ggcagcgggc ccacatgtct ctcaagtacc tgteccctcg ctctggtgat tattttctgc 60
agaatcacca cacgagacca tcccggoagt catgggtttg ctttagtttt coaagtcctg 120
ttcagtcctt tccctggtct gaagaaaattc tgcagtgggc agcagtttcc cacttgccaa 180
agatcccttt taaccaaacac tagcccttgc ttttaacaca cgtcccgacc ctctcatcagc 240
ctgggcagtc ttacccaaat gtttaaagtg atctcagagg ggcccattga ttaacgcctc 300
catcccaagg tccgtcccat gacataaacac tccacacccc ccccagccaa ctctatgggt 360
cactttttct ggaaaaataat gatctgtaca gacaggacag aatgaaacct ctgcgcctct 420
ttggcctgaa agtgggaatg gt 442

```

```

<210> 16
<211> 256
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 96
<223> n = A,T,C or G

```

```

<400> 16
gaatatgtag atttgcttct taatcctgag cgctacactg gttacaaggg accagatgct 60
tggaataatc ggaatgtcat ctacgaagaa aactgnttta agccacagac cattaaaaga 120
ccttaaatcc tttggcttct ggtcaaggga caagtgaaga gaacactttt tacagttggc 180
tagaaggctc ctgtgtagaa aaaagagctt ctacagactt atatctggcc tacatgcaag 240
ccattaatgt gcattt 256

```

```

<210> 17
<211> 405
<212> DNA
<213> Homo sapiens

```

```

<400> 17
attctgtgat ttatttgaaa ctgtgaaacc atgtgcccata atagaatttt gagaattttg 60
cttttacctt aattcaagaa aatgaaatta cactttttaag ttagtgtgct ttaagcataa 120
tttttcctat attaacccagt attaaaatct caagtaagat ttccagtgcc cagaacatgt 180
taggtggaat tttaaaagtg cctcgccatc ctgtattaca tgtcatagaa ttgtaaagtc 240
aacatcaatt actagtaatc attctgcact cactgggtgc atagcatggt tagaggggct 300
agagatggac agtcataaac tggcggatat agcggtacat atgatcctta gccaccaggg 360
cacaagctta ccagtagaca atacagacag agcttttgtt gagct 405

```

```

<210> 18
<211> 447
<212> DNA
<213> Homo sapiens

```

```

<400> 18
tgtgatttca tttgaaactg tgaaccatg tgccataata gaattttgag aattttgctt 60

```

ttacctaaat	tcaagaaaat	gaaattacac	ttttaagtta	gtgggtgctta	agcataaatt	120
ttcctatatt	aaccagttatt	aaaatctcaa	gtaagatttt	ccagtgccag	aacatgttag	180
gtggaatttt	aaaagtgcct	cggcatcctg	tattacatgt	catagaattg	taaagtcaac	240
atcaattact	agtaatcatt	ctgcactcac	tgggtgcata	gcattggttag	aggggctaga	300
gatggacagt	catcaactgg	cggatatagc	ggtacatatg	atccttagcc	accaggccac	360
aagcttacca	gtagacaata	cagacagagc	ttttgttgag	ctgtaactga	gctatggaat	420
agcttctttg	atgtacctct	ttgcctt				477

<210> 19

<211> 294

<212> DNA

<213> Homo sapiens

<400> 19

tgtgatttca	tttgaaactg	tgaaccatg	tgcataata	gaattttgag	aattttgctt	60
ttacctaaat	tcaagaaaat	gaaattacac	ttttaagtta	gtgggtgctta	agcataaatt	120
ttcctatatt	aaccagttatt	aaaatctcaa	gtaagatttt	ccagtgccag	aacatgttag	180
gtggaatttt	aaaagtgcct	cggcatcctg	tattacatgt	catagaattg	taaagtcaac	240
atcaattact	agtaatcatt	ctgcactcac	tgggtgcata	gcattggttag	aggg	294

<210> 20

<211> 562

<212> DNA

<213> Homo sapiens

<400> 20

aggagcaggt	tggactggcc	atccgaagca	agattgcaga	tggcagtggt	aagagagaag	60
acattattcta	caactcaaaag	ctttggagca	attcccatcg	accagagttg	gtccgccagc	120
ccttgaaag	gtcactgaaa	aatcttcaat	tggactatgt	tgacctctat	cttattcatt	180
ttccagtgct	tgtaaagcca	ggtagggaag	tgatcccaaa	agatgaaaaa	ggaaaaatac	240
tatttgacac	agtggatctc	tgtgccacat	ggagagccat	ggagaagtgt	aaagatgcag	300
gattggccaa	gtccatcggg	gtgtccaact	tcaaccacag	gctgctggag	atgatcctca	360
acaagccagg	gctcaagtac	aagcctgtct	gcaaccaggt	ggaatgtcat	ccttacttca	420
accagagaaa	actgctggat	ttctgcaagt	caaaagacat	tgtttctggt	gcctatagtg	480
ctctgggagc	ccatcgagaa	gaaccatggg	tggaccgccg	ctccccgggt	ctcttgaggg	540
accagctctc	tttggccttg	gc				562

<210> 21

<211> 721

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 626, 685, 696

<223> n = A,T,C or G

<400> 21

ggcagagat	gaggagcagg	ttgactggc	catccgaagc	aagattgcag	atggcagtg	60
gaagagagaa	gacatattct	acacttcaaa	gctttggagc	aattcccatc	gaccagagtt	120
ggcccgacc	agccttggaa	aggtcactga	aaaatcttca	attggactat	gttgacctct	180
atcttattca	ttttccagtg	tctgtaaaag	caggtgagga	agtgatccca	aaagatgaaa	240
atggaaaaat	actatttgac	acagtgagtc	tctgtgccac	atggggagcc	atggagaagt	300
gtaaagatgc	aggattggcc	aagtcacatc	gggtgtccaa	cttcaaccac	aggctgctgg	360
agatgatcct	caaccaagcca	gggctcaagt	acaagcctgt	ctgcaaccag	gtggaatgtc	420
atccttactt	caaccagaga	aaactgctgg	attttctgca	gtcaaaagac	attgttctgg	480

ttgcctatag	tgtctctgga	tcccatcgag	aagaaccatg	ggtaggaccg	aactccccgg	540
tgtctcttga	ggaccacagc	ctttgtgcct	tggcaaaaaa	gcacaagcga	accccaccct	600
gattgcctcg	cgctaccagc	ttgcancgtg	gggttgtgtg	cctggccaag	agcttcaatg	660
agcacgcac	agacagaagc	tgcangtgtt	tgaatncagt	tgacttcaga	aggagatgaa	720
a						721

<210> 22  
 <211> 496  
 <212> DNA  
 <213> Homo sapiens

<400> 22						
agatgataac	cagaagtctg	catttgaagt	tcacaaaagt	aatcaagctc	aaacagttag	60
tgagaggcag	aagaacagac	ctaaatcttg	taaaaaagg	aaaaatatta	gggaagatga	120
tcctgttaaga	atgttgcaca	ctgttgcaaa	gaaattcgac	ttcagtaatt	tgagtagtag	180
gtttagatgga	gtcagatttg	aaaatgaaaa	aaattaatgt	tattgccaag	aacactggta	240
ataaaactgaa	gctaagtctg	aaaaaatggt	tgtttgcctg	atcccaatgg	agaaaagtgt	300
gtaactgtct	ctctgcaggt	ctctgtctct	caccataaag	acattgtctc	gtctttgggt	360
gctgcaagtg	atggagctac	agtctgtgtt	accacaagg	gagatattta	cttactttga	420
gagatcaggt	gcaagaagat	ggcttctaaa	cagttgaact	tgaaaaaagt	tcttgtgtct	480
gggggtcata	tggaat					496

<210> 23  
 <211> 549  
 <212> DNA  
 <213> Homo sapiens

<400> 23						
ctgcatttga	agttcacaaa	agtaaatcaag	ctcaaacagt	tagtgagagg	cagaagagca	60
gacctaaatc	ttgttaaaaa	ggaaaaaata	ttaggggaaga	tgatctctga	agaagtgtgc	120
aaactgtttg	aaagaaattc	gacttcagta	atttgagttag	taggttagat	ggagtcagat	180
ttgaaaatga	aaaaaaattaa	tgttatttgc	aagaacactg	gtaataaact	gaagctaagt	240
cagaaaaaat	ggttgttttg	tagatcccaa	tggagaaaaa	tgtgtaactg	ctctctgtoa	300
ggctctgtct	cttcaccata	aagacattgc	tctgtctttg	gttgctgcaa	gtgatggagc	360
tacagtctgt	gttaccacaa	ggggagatat	ttacttactt	gcagactatc	agtgcaagaa	420
gatggcttct	aaacagttga	acttgaaaaa	agttctttgt	tctgggggtc	atatgggaata	480
caagggtgat	cctgaacatt	tgaagaaaaa	tgggggtcaa	aaaatttgca	ttcttgcaat	540
ggatggagc						549

<210> 24  
 <211> 55  
 <212> DNA  
 <213> Homo sapiens

<400> 24						
gtgtctgcct	tcacaaatgt	cattgtctac	tcttagaaga	accaaatacc	tcaat	55

<210> 25  
 <211> 498  
 <212> DNA  
 <213> Homo sapiens

<400> 25						
tccttatatta	tttaacttca	cccgagttcc	tctgggttcc	taagcagtta	tggtgatgac	60
ttagcgtcaa	gacatttgct	gaactcagca	cattcgggac	caatatatag	tggtgtacac	120
aagttcatct	gacaaaaatg	ggcagaagag	aaaggactca	gtgtgtgatc	cggtttcttt	180
ttgctcgccc	ctgttttttg	tagaatctct	tcatgcttga	catacctacc	agtattattc	240

ccgacgacac	atatacatat	gagaatatac	cttatttatt	tttgtgtagg	tgtctgcctt	300
cacaaatgtc	attgtctact	cctagaagaa	ccaaatacct	caatttttgt	ttttgagtac	360
tgtactatcc	tgtaaatata	tcttaagcag	gtttgttttc	agcactgatg	gaaaatacca	420
gtgttgggtt	tttttttagt	tgccacagtt	gtatgtttgc	tgattattta	tgaccggaaa	480
aatatatttc	ttctccta					498

<210> 26  
 <211> 325  
 <212> DNA  
 <213> Homo sapiens

<400> 26						
gtcgtgcct	ctggggggcgc	tgtacacgcg	ggcgcgtgcg	gcttttagtg	tgtacaagtg	60
tgtggggggg	ggagatgaaa	ctgcggttct	ccaccaggag	gcaagcaagc	agcagccact	120
gcagtcagag	caacagctgg	cccagttgac	acaacagctg	gcccagacag	agcagcacct	180
gaacaacctg	atggcccagc	tggacccctt	ttttgagccg	tgtgactact	ctggctggag	240
cccagcagga	gcttctgaac	atgaagctat	ggaccatcca	cgagctgctg	caagatagca	300
agccggacaa	ggatatggag	gcttc				325

<210> 27  
 <211> 166  
 <212> DNA  
 <213> Homo sapiens

<400> 27						
gaatccagca	tcttaaaagt	gcatatgtgt	agcactaatg	tttcttttta	aatagttggg	60
ggaaaatgac	ctagaaaacc	aaattgcagt	ttggtagcca	aaattaacct	ttggtttatt	120
tgtcctttgt	gtgtgaaaag	tctactattt	ccgtgcgtca	gaattc		166

<210> 28  
 <211> 501  
 <212> DNA  
 <213> Homo sapiens

<400> 28						
tttttttttt	tttttttttt	tttttcgcag	ctgaattaca	tttactgtac	aaagaacggt	60
tcggagagaa	ccaggaatgg	cggagtgtct	aacagcagcg	cgggtagtgt	tgatgccgtg	120
aatgcaggag	ctccagggtc	ctcaaagtct	gcgaggtttg	ttcataatcc	caaacagggg	180
ccctgctggc	agcaacagga	caggtggggc	caggacaggg	aagctggagc	aggaggccag	240
tgtctttggg	ggctgtggca	gggccgcctg	cctgggggtc	ccttactcat	ctggtagttc	300
atgcaggcca	gggcctcat	ctcccaggaa	cggggccatg	ggcgagtcca	ctggtgccca	360
gtaacacct	ccgtggggac	accttgggaa	gcattgtgcg	cggagtcacc	cacggggggg	420
cctgggtccc	gggagggtcc	cttctgcgtg	ctggccatgt	cgtgccgcac	ggcctgagga	480
caggaggtag	aggtgagcac	c				501

<210> 29  
 <211> 149  
 <212> DNA  
 <213> Homo sapiens

<400> 29						
cgtccggag	gtgcggtgtg	gggcacgggg	gggggcgcgc	ggaacggcg	ccccacggag	60
ctgctgctgt	cagaccaacc	ccgggcccc	atcatactgt	cgcgcgctt	tcaggcgccg	120
agaactaccg	ttcccgcgat	gccatgaaa				149

<210> 30  
 <211> 475



```

<212> DNA
<213> Homo sapiens

<400> 30
agcagtaaac agggctgcta tgcctgctct gtagtggtgg acggcgaagt aaagcattgt 60
gtcataaaca aaacagcaac tggctatggc ttgcccagac cctataactt gtacagctct 120
ctgaagaaga ttggtgctaca ttaccaacac acctcccttg tgcagcacia cgactccctc 180
aatgtcacac tagccttacc agtatatgca cagcagaggc gatgaagcgc ttactctttg 240
atcccttctc tgaagttcag ccacccctgag gcctctggaa agcaaaggcg tccctctccag 300
totgatctca gaattgagct gcagaaacga agccatcttt ctttgtagtg gactagagct 360
ttctttcaga aaaaagaagt aggggaagac atgcagccta aggctgtatg atgaccacac 420
gttctaagc tggagtgtct atcccttctt tttctttttt tctttgtgtt aattt 475

<210> 31
<211> 570
<212> DNA
<213> Homo sapiens

<400> 31
cttttttttt tttttttttt tactggcctc ctgtacattt accttttaaa aaggataaca 60
aaaatgaata ttaacaaaaa tccgggacaa caatatcttc aagcaacaaa aactgggggtg 120
gggaagctta ttctgaaggt acatttaaaa ctgaataaac aacttaataa aaattaagaa 180
ttgcatagcg ctgtgaattt agccttcaag aaaaacaaaac agaagctatt tggattatgt 240
acaaatccat ctatttgata gttagtctac caatattatg tacatatatt atatactgaa 300
tgtcatttta agtccctgtt tccaaactcc atttttctgt tgcctgggtt ttgttttttg 360
acaagttaaa cactttctgg cactttctat gacagaattt cttctgaaca tacatgaact 420
gacattctcc caaagcgtcc cttgtgagtg gacgcgcctt tctgctacat atcgttcatt 480
tggtcaaaaa tgaataaact cacagtgcga tgtgtctggg tccacccgtc acagcaaat 540
ccaggctaaa ccaggctgga ccaaaccttc 570

<210> 32
<211> 645
<212> DNA
<213> Homo sapiens

<400> 32
tccgagcgtc gggagcctgt ggaagagaag agcgcgcggg cgacagtgta acaggcccca 60
ggcagagaaa ccgcccagtg agctctcgcg gcccccgtgc agccgcgggt tgcctgcggag 120
gtccgtgcac agactgcttt gcctgttgtt gctcttcgga ggcggcgatc ccggaaggcg 180
agctgaataa cggctgcagg ctacaatttg cagccgacga ttaaggaaga cgacgagcgg 240
gagaggtggc ccacccctcat ggagcgcgtt tgcctcgatg gcttcgcatt tccccattac 300
tacattaaac cgtatcatct gaagaggatc cacagagctg tcttacgttg taatctggag 360
aaactgaagt acctctgct cagctattat gacgccaata agagagacag gaaggaaaagg 420
actgcctcac atttgccctg tgccactggc caaccggaaa tggtagactc cctgggtgct 480
agaagatgtg agcttaacct ctgcgaccgt gaagacagga caccctctga caaggctgta 540
caactgaggc aggagccttg tgcaactctt ctgctgcaaa tggcgcggat ccaaatatta 600
cggatgtctt tggaaaggact gctctgcact acgctgtgta taatg 645

<210> 33
<211> 572
<212> DNA
<213> Homo sapiens

<400> 33
ctaaactgagt aacattcatg aaatgaggct ttctgtggcg gcgtagtgtt tgggaattaga 60
aggtaatcca gtagagtgtt acttagagaa tattgcaagt gacacattga atcctgccc 120
tcagggcacc ttttctctag agcaatccgg ccacacgaat agaaggctgt cgtgaatcac 180

```

```

atcagatgta aaatcattcc ttctgtttac tcttttaatt ttcattccttt gcaggtagt 240
caaatccaac ttcaaatatg gtgtagggtt tgctagattc catatttttt tcttggtatt 300
ttgctaatta ttttttagcaa aaaatttttt ctcatgtggca ccctccctag tgtccatggg 360
ttaggggccat gctggggaaa acggggcgggt atttacacac gcgcaaaaca ccagagacg 420
gcacaaggag gttgaactca tgtttcagtt cgcgaacatt gactccttac gaaagtcact 480
tcattctaac tagatgcgc cacttctggt cattatttcg ttgtcatgat gtattgtctc 540
ttcacgtttt gtttttattg agcacggagt ag 572

```

```

<210> 34
<211> 701
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 34, 41, 43, 52, 58, 72, 180, 204, 205, 211, 214, 228, 243,
253, 269, 271, 295, 315, 343, 429, 439, 457, 483, 517, 529,
546, 554, 555, 557, 560, 561, 565, 627, 632, 637, 644, 655,
659, 662, 672, 680, 689, 690, 698
<223> n = A,T,C or G

```

```

<400> 34
ggcacgaggc taactgtgta acatttatga aatntgctct ntntggcggc gnaggggncg 60
gaatgagaag gnaattcagt agagtgtaac ttagagaata ttgcaaggga cacattgaat 120
cctgcccgct agggcacctt ttctctcagag caatccggcc acacgaatag aaggctgcgn 180
gaatcacact agatgtaaaa tcannccctc ngngactct ttaaatnttc atcctttgca 240
ggnagggcaa atncaacttc aaatatggng naggttttgc tagattccat attntttct 300
tggatttttg ctaantattt ttgcaaaaaa attttgtctc agnggcaccc tccctagtgt 360
ccatgggtta gggccatgct ggggaaaaac ggcgggtatt tacacacgcy caaaacaccc 420
agagacggna caaggaggnnt gaactcatgt ttcatgncgc gaactatgac tccttacgaa 480
agncaactca ttctaactag atgcgcccac ttctggncaat tattacgant gcatgaagga 540
ttgtcnettc acgnntngnn nttantgagc acgggagtag aaattccagg gotggcttga 600
catctccctc goactgctcc tcccagngga cngtccntcc cttnccatag agganctgnc 660
gnccatggtg gntttctccn ttgggcctnn tgggactngg a 701

```

```

<210> 35
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 35
gctaactgag taacattcat gaaatgaggc ttctgtggc ggcgtagtgt ttggaattag 60
aagtaattc agtagagtgt aacttagaga atattgcaag tgacacattg aatcctgcc 120
gtcagggcac cttttctca gagcaatccg gccacacgaa tagaaggctg tctgtaacta 180
catcagatgt aaaatcatc cttctgttta ctcttttaat ttcatcctt tcaggtagt 240
gcaaatccaa cttcaaatat ggtgtagggt ttgtctagatt ccatattttt tcttggtatt 300

```

```

<210> 36
<211> 374
<212> DNA
<213> Homo sapiens

```

```

<400> 36
tggtacgcct gcaggtaccg gtcgcgaatt cccgggtcga cccacgcgct cggaggggtc 60
ctggagaatg ggttacccca gttgtcttat ttaaatggtt acccatcaga ttttaatttt 120

```

```

atctctctctt tgagagcttg gtaataagaa gcacttaaat cactccaaag aagactttta 180
aaagggagca gtgaaaaggt ctttaataatt tattgattga attaagaaat actagcta 240
taagaatctg agtctaaca gcacagattt tttctttctg ctttttaatt gtgtttttaa 300
aaaagagaca gggggctggg cgtgggtggt cagcgctgta atcctagcac ttggggaggc 360
cgagcgggt ggat 374

```

```

<210> 37
<211> 290
<212> DNA
<213> Homo sapiens

```

```

<400> 37
gaggggtcct ggagaaatgg gttaccccag ttgtcttatt taaatgggta cccatcagat 60
tttaatttta tctctctctt gagagcttgg taataagaag cacttaaatc actccaaaga 120
agacttttaa aaggggagcag tgaagaggtc ttaataattt attgattgaa ttaagaaata 180
ctagctaatt aagaatctga gtctaaccag cacagatttt tctcttctgc ttttaaatgt 240
tgttttaaaa aaagagacag ggggctgggc gtggtggctc acgctctgtaa 290

```

```

<210> 38
<211> 405
<212> DNA
<213> Homo sapiens

```

```

<400> 38
gccctttcga gcggccgccc gggcaggtac ctgggattac aggcaccac caccacgcct 60
ggctaatttt tttttgtatc ttttagtaggg ttttgccatg ttggccaggc tgggtctttaa 120
ctctacctc gtgatccacc cgctctggcc ccccaaatgt ctaggaccac aggcgtgagc 180
caccacgccc agcccccgtg ctcttttttt aaaacacaaat ttaaaagcag aaagaaaaaa 240
tctgtgctgt ttagactcag attcttaatt agctagtatt tcttaattca atcaataaat 300
tattaagacc ttttctactgc tcccttttta aagtctctct tggagtgatt taagtgtctc 360
ttattaccaa gctctcaaaag agaagataaa attaaaatct gatgg 405

```

```

<210> 39
<211> 736
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, 22,
23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36,
37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50,
51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64,
65
<223> n = A,T,C or G

```

```

<220>
<221> misc_feature
<222> 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80,
81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94,
95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107,
108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118
<223> n = A,T,C or G

```

```

<220>
<221> misc_feature
<222> 119, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636,

```

```

637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648,
649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660,
661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671
<223> n = A,T,C or G

<220>
<221> misc_feature
<222> 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683,
684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695,
696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707,
708, 709, 710, 711, 712, 713, 714, 729, 736
<223> n = A,T,C or G

<400> 39
gnnnnnnnna gacnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
cctgggatta caggcaccca ccaccacgcc tggctaattt ttttttgat ctttagtagg 180
gttttgccat gttggccagg ctgggtcttta actcctacct cgtgatccac ccgcctcggc 240
ccccaaagt gctaggacca caggcgtgag ccaccacgcc cagcccccctg tctctttttt 300
taaaacacaa tttaaaagca gaaagaaaaa atctgtgctg tttagactca gattcttaat 360
tagctagtat ttcttaatto aatcaataaa ttattaagac cttttcactg ctcccttttt 420
aaagtcttct ttggagtgat ttaagtgcct cttattacca agctctcaaa gagaagataa 480
aattaaaaatc tgatgggtaa ccatttaaat aagacaactg gggttaacca ttctccagg 540
accocctctc gcaacagaga gctattctct ttctttggcc tagtaaacct ctgctcttaa 600
cctttaaaaa aaaaaaaa gtaccnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnncatagt 720
ggttcctgng tgaaan 736

<210> 40
<211> 725
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 15, 16, 17, 18, 19, 20,
21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34,
35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48,
49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62,
63
<223> n = A,T,C or G

<220>
<221> misc_feature
<222> 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78,
79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92,
93, 94, 95, 96, 97, 98, 605, 606, 607, 608, 609, 610, 611,
612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623
<223> n = A,T,C or G

<220>
<221> misc_feature
<222> 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635,
636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647,
648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659,
660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670
<223> n = A,T,C or G

```

```

<220>
<221> misc_feature
<222> 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682,
683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694,
695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706,
707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717
<223> n = A,T,C or G

<400> 40
gnnnnnnnnnn annnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 60
nnnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnnn ctgggattac aggcaccac 120
caccacgcct ggctaatttt tttttgtatc ttttagtaggg ttttgccatg ttggccaggc 180
tggtctttaa ctctacacct gtgatccacc cgctcggcc ccccaaaagt ctaggaccac 240
aggcgtgagc caccacgccc agcccccctgt ctcttttttt aaaacacata ttaaaagcag 300
aaagaaaaaa tctgtgctgt ttagactcag attottaatt agctagtatt tcttaattca 360
atcaataaat tattaagacc ttttactgct tcccttttta aagtctcttt tggagtgtatt 420
taagtgcctt ttattaccaa gctctcaaag agaagataaa attaaaatct gatgggtaac 480
catttaataa agacaactgg ggtaacccat ttctccaggc cccctctctg caacagagag 540
ctattctctt tctttggcct agtaaacctc tgctottaac ctttaaaaaa aaaaaaaaag 600
taccnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 660
nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnggt 720
atccg 725

<210> 41
<211> 474
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 243, 267
<223> n = A,T,C or G

<400> 41
ccggaaaaaa agaaccattt ggatacatag gtatggctcg agctatgata tcaattggct 60
tcttaggggt tatcgtgtga gcacacata tatttacagt aggaatagac gtacacacac 120
gagcatattt cacctccgct accataatca tgcgtatccc caccggcgctc aaagtattta 180
gctgactcgc cacactccac ggaagcaata tgaatgacg tgcgtcagtg ctctgagccc 240
tangattcat ctttcttttc accgtangtg gctgactggt cattgtatta gcaaacctcat 300
cactagacat cgtactacac gacacgtact acgttgtagc ccacttcacac tatgtcctat 360
caataggagc tgtatttgcc atcataggag gcttoattca ctgatttccc ctattctcag 420
gctacaccct agacaaaacc tacgcaaaa tccatttcac tatcatattc atcg 474

<210> 42
<211> 540
<212> DNA
<213> Homo sapiens

<400> 42
cataggtatg gtctgagcta tgatatcaat tggcttecta ggggttatcg tgtgagcaca 60
ccatatattt acagttagaa tagacgtaga cacacgagca tatttcacct ccgctaccat 120
aatcatcgct atcccacgc gcgtcaaaagt atttagctga ctgcgcacac tccacggaag 180
caatatgaaa tgatctgctg cagtgcctctg agccctagga ttcattcttc ttttcaccgt 240
aggtggcctg actggcattg tattagcaaa ctcatcacta gacatcgtag tacacgacac 300

```

```

gtactacgtt gtagcccaact tccactatgt cctatcaata ggagctgtat ttgccatcat 360
aggaggcttc attcactgat ttccctatt ctccaggtac accctagacc aaacctacgc 420
caaaatccat ttcactatca tattcatcgg cgtaaatcta actttcttcc cacacacctt 480
tctcggccta tccggaatgc cccgacgtta ctcgactac cccgatgcac acaccacatg 540

```

```

<210> 43
<211> 587
<212> DNA
<213> Homo sapiens

```

```

<400> 43
gacootgagt catttagaat agtgataaat agaatacaca gaatagtgat gaaattoaat 60
ttaaaaaatc acgttagcct ccaaacattt taattcaaat gaacccatca actggatgcc 120
aactctggcg aatgtaggac ctctgagtgg ctgtataatt gtaaatcaaa atgaaattca 180
tttaaacagt tgacaaactg tcattcaaca attagctcca gtaataaaca gtattttcat 240
cataaaacag tcccttcaaa cacacaattg tctgtgctga gagttgtcat caacaatcca 300
atgctcacct attcagttgc tctgtgggtc gtgtgggtgc atagcagtgg attccatgaa 360
aggagtcatt ttagttagta gctgccagtc cattcccagg ccaggctgtc gctggccatc 420
cattcagctg attcagtcac aggcgaatct gttctgccg aggccttggg tcaagcaaaa 480
attcagccct gaaatcagg acatctgttc gttggactaa acccaacagg tagttcagtc 540
aaagcaggca acccccctgt gggcactgac cctgccactg gggtcac 587

```

```

<210> 44
<211> 622
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 491, 541, 556, 561, 568, 578, 585
<223> n = A,T,C or G

```

```

<400> 44
accatgagtc atttagaata gtgataaata gaatacacag aatagtgtat aaattcaatt 60
taaaaaatca cgttagcctc caaacattt taattcaaat aacccatcaa ctggatgcca 120
actctggcg aatgtaggac tctgagtggc tgtataattg ttaattcaaa tgaattcat 180
ttaaacagt gacaaactgt cattcaacaa tttagctccag taaataacag ttaattcatc 240
ataaacagt ccttcaaac acacaattgt tctgtggaag agttgtcatc aacaatcaa 300
tgctaaccta ttcagttgct ctgtgggtgc tgtgggtgca tagcgtggga ttccatgaaa 360
ggagtcattt tagtggtgga gctgccagtc cttcccgggc cgggtgtgca tggggccatc 420
ttcagtcgtt tctgcatagg cgtctgtgtc tgcccgaggg ttgtggtcag gcaaaattca 480
gcccgtgaat ngggcactct gttcgttggg ctaaaacccc ggttagttca gtcaggcg 540
naacccccct gtgggnaactg ncttgcntt ggggtctnng cggntngccc gttggggagg 600
tttggcccca cggcctctgt gg 622

```

```

<210> 45
<211> 340
<212> DNA
<213> Homo sapiens

```

```

<400> 45
aaggcaggaa tgtcaggcct ctgagcccaa gccaaagccat cgcacccctt gtgaattgca 60
cgtatacacc cagatggcct gaagtaactg aagaatcaca aaagaagtga aaaggccctg 120
cccgcctaca actgatgaca ttccaccatg gtgatttgtt cctgcccacac cttacactgag 180
tgattaaacc tgtgaatttc cttctcctgg ctcaagact cccccaactg gcaccttgtg 240
acccccgcc ctgcccacca gagaacaacc cctttgact gtaatttccc atcaccttcc 300

```

```

caaatcctat aaaacggccc caccctatc tcctttgtct 340

<210> 46
<211> 394
<212> DNA
<213> Homo sapiens

<400> 46
aaggcaggaa tgtcaggcct ctgagcccaa gccaaagccat cgcacccct gtgacttgca 60
cgtatacacc cagatggcct gaagtaactg aagaatcaca aaagaagtga aaaggccctg 120
ccgcgcctca actgatgaca ttccaccatg gtgatttgtt cctgcccacc cttaaactgag 180
tgattaaccc tgtgaatttc cttctcctgg ctccagaagct ccccccactga gcacctttgt 240
acccccgccc ctgcccacca gagaacaacc ccccttgact gtaatttccc atcaccttcc 300
caaatcctat aaaacggccc caccctatc tcctttgtct gactctcttt ttggactcag 360
ccgcgcctga cccaggtgaa ataaacagcc atgt 394

<210> 47
<211> 246
<212> DNA
<213> Homo sapiens

<400> 47
tagccctgat aggcgcctatt ttctcctgg ttttgtattt gaaccgcaag gggtataaaa 60
agtggatgca taacatcaga gatgcctgca gggatcacat ggaagggat cattacagat 120
atgaatcaa tgcgggacccg gggattaaca aacctcagtt ctaactcgga tgtctgagaa 180
atattagagg acagaccaag gacaactctg catgagatgt agacttaagc tttatcccta 240
ctaggc 246

<210> 48
<211> 336
<212> DNA
<213> Homo sapiens

<400> 48
acatatattc ttttctccca ttggccacaa tgggctccaa acaaccacat gcagatttta 60
caaaaagaaa gttccaaaac tgctcaatca aaagaagaat tcaactctgt gagatgaata 120
cacacatcac aacgaagttt ctccagaatgc ttctgtgttg tttttatgtg aagatatttc 180
cttttccatc ataggcctct aagtgcatac actatccact tgcagattct acaaaaagag 240
tgtttcaaaa ctgctcaatc aaaagaaagt atcaactctg tgaggaaatg cacacatcac 300
aaagaagttt ctccagaatga ttctgtgtag ttttta 336

<210> 49
<211> 518
<212> DNA
<213> Homo sapiens

<400> 49
cagaagggtc tgcaaatgac tgttcttggc cactttcttt cccactctgg aaggcgcat 60
ctatgacttc attggggagt tcatgaaggc cagcgtggat gtgccagacc tgataggtct 120
aaacctgtgc atgtcccgga atgcccggaa gggagagtag aagatcatgg ttgctgccct 180
gggctggccc actgctgagc ttattatgtc ccgctgcatt cccctatggg tcggagcccg 240
gggcaattgag tttgaactga agtaccatca gatgagcata gactccaca tcaactctgt 300
ccattacatc gtccgcgtctg ctccaggtctg gatgataaca cgctatgac tgtaccacac 360
cttcgggcca gctgtctctc tgctgatgtt cctcagtgct tacaaggcct ttgttatgga 420
gacctctgct caectctgct cgtggggcag ttgggcagct ctactggccc gagcagtggt 480
aacggggctg ctggccctca acactttggc cctgtatg 518

```

<210> 50  
 <211> 326  
 <212> DNA  
 <213> Homo sapiens

<400> 50  
 tctgcaagat gctgttcttg gccactttct tccccacctg ggaagcgccg atctatgact 60  
 tcattgggga gttcatgaag gccagcgctg atgtgccaga cctgataggt ctaaaccttg 120  
 tcattgtccc gaatgccggc aaggaggagt acaagatcat ggttgctgcc ctgggctggg 180  
 ccactgctga gcttattatg tcccgctgca tccccctatg ggtcgagcgc cggggcattg 240  
 agtttgactg gaagtacatc cagatgagca tagactccaa catcagtcgt gtccattaca 300  
 tcgtcgcgtc tgctcaggtc tggatg 326

<210> 51  
 <211> 331  
 <212> DNA  
 <213> Homo sapiens

<400> 51  
 acattgaaaa aagctctagc aaactgaaag gcaataaatc ctatgtgaac atggacctct 60  
 ctccggtggg agagtctcat gaccacgctc taacaagtct ctccctaag actcattatg 120  
 ccgctggaaa agatgccaaa attttctgga tacctctgtc tcacatgccg gcagctttgc 180  
 aagacttttt attgttgaaa cagaaagcag agctggctaa tcccaaggca gtgtgactca 240  
 gctaaccaca aatgtctctc ccaggctatg aaattggcgc atttcaagaa cacatctcct 300  
 tttcaacccc attccttato tgcctcaaac g 331

<210> 52  
 <211> 253  
 <212> DNA  
 <213> Homo sapiens

<400> 52  
 acagaaggga togaagacaa attgaaggga gagatgatcg atctccaaca tggcagcctt 60  
 ttcccttagaa caccaaaagt tgtctctggc aaagactcta atgtaactgc aaactccaag 120  
 ctggctcatta tcacggcttg ggcacgtcag caagaggagg aaagccgtct taatttggtc 180  
 cagcgtaacg tgaacatatt taaattcctc attcctaatt ttgtaaaata cagcccgaaac 240  
 tgcaagttgc tta 253

<210> 53  
 <211> 356  
 <212> DNA  
 <213> Homo sapiens

<400> 53  
 atcgaagaca aattgaaggg agagatgatg gatctccaac atggcagcct ttcccttaca 60  
 acaccaaaaga ttgtctctgg caaagactat aatgtaactg caaactccaa gctggctatt 120  
 atcacggctg gggcacgtca gcaagaggga gaaagccgtc ttaatttggt ccagcgtaac 180  
 gtgaacatat ttaaatctcat cattcctaaa gttgtaaaat acagcccgaa ctgcaagttg 240  
 cttattgttt caaatccagt ggatattctg acctacgtgg cttggaagat aagtggtttt 300  
 cccaaaacac gtgttattgg aagaggttgc aatctggatt caaccgcatt ccgcta 356

<210> 54  
 <211> 570  
 <212> DNA  
 <213> Homo sapiens

<400> 54



ccgctgccgc	cgattccgga	tctcattgcc	acgcgcccc	gacgaccgcc	cgacgtgcat	60
tcccgattcc	tttttggtcc	aagttccaata	tggcaactct	aaaggatcag	ctgatttata	120
atcttctaaa	ggaagaacag	accccccaaga	ataagattac	agttgttggg	gttggtgctg	180
ttggcatggc	ctgtgccatc	agtatcttaa	tgaaggactt	ggcagatgaa	cttgctcttg	240
ttgatgtcat	cgaagacaaa	ttgaagggag	agatgatgga	tctccaaatc	ggcagccttt	300
tccttagaac	accaaaagatt	gtctctggca	aagactataa	tgtaaactgca	aaectcaagc	360
tggtcattat	cacggctggg	gcacgtcagc	aagaggggaga	aaagcgtctt	aatttgggtc	420
agcgtaacgt	gaacatattt	aaattcatca	ttcctaattg	tgtaaaaatc	agcccgaact	480
gcaagttgct	tattgtttca	aatccagtgg	atatcttgac	ctacgtggct	tggaagataa	540
gtggttttcc	caaaaaccgt	gttattggaa				570

<210> 55  
 <211> 223  
 <212> DNA  
 <213> Homo sapiens

<400> 55	gcoctgccgc	ccgattccgg	atctcattgc	cacgcgcccc	cgacgaccgc	ccgacgtgca	60
	ttcccatttc	cttttgggtc	caagtccaat	atggcaactc	taaaggatca	gctgatttat	120
	aatcttctaa	aggaagaaca	gaccccccaag	aataagatta	cagttgttgg	ggttgggtct	180
	gttggcatgg	cctgtgccat	cagtatotta	atgaaggact	tgg		223

<210> 56  
 <211> 337  
 <212> DNA  
 <213> Homo sapiens

<400> 56	gatgcccata	agatatggga	agctatgtta	tcaagccata	ttagatatca	agcattaata	60
	tggaataaaa	ccagcctggt	tggtgggctc	ttcacatgga	cgcgcgatga	atttgggtcc	120
	gtgactagga	tccgggggac	tccttggga	gataaatccc	ctgtctctct	gctctttgct	180
	ccgtgagaaa	catgcaccta	tggcctcatg	ttctcaaaac	gacccaaaac	agaaacatct	240
	caccaatttt	aaatccgcct	ggcttgtgag	gccttttgac	cccaattcaa	gtcttttggat	300
	accctgtgaa	ttgcacccat	actgcccaag	tggctag			337

<210> 57  
 <211> 473  
 <212> DNA  
 <213> Homo sapiens

<400> 57	aaagatcaaa	gtgctgggct	ccggtgcggt	cggcacgggt	tataaggag	tctggatccc	60
	agaaggtgag	aaagttaaaa	ttcccgtcgc	tatcaaggaa	ttaagagaag	caacatctcc	120
	gaaagccaac	aaggaaatcc	tcgatgaagc	ctacgtgatg	gccagctggg	acaaccccca	180
	cgtgtgccgc	ctgctgggca	tctgcctcac	ctccaccgtg	caactcatca	cgcagctcat	240
	gcccttcggc	tgctctctcg	actatgtccg	ggaacacaaa	gacaatattg	gctcccagta	300
	cctgctcaac	tggtgtgtgc	agatcgcaaa	gggcatgaac	tacttggagg	accgtcgctt	360
	gggtgcaccgc	gacctggcag	ccaggaaact	actggtgaaa	acaccgcagc	atgtcaagat	420
	cacagatttt	gggtgtggca	aactgtctgg	tgcggaagag	aaagaatacc	atg	473

<210> 58  
 <211> 487  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<222> 7

<223> n = A,T,C or G

<400> 58

```
actatcnccc aggacatggg accatgctca gctgggtgct atcaagacct tgaagacta 60
taacaacccc cagcaatgga tggaaattca acaagaagcc tccctaattg cagaactgca 120
ccacccaatc attgtctgcc ttctaggtgc cgtcactcag gaacaacctg tgtgcatgct 180
ttttgagtat attaatcagg gggatctcca tgagttccct atcatgagat cccacactc 240
tgatgttggtc tgcagcagtg atgaagatgg gactgtgaaa tccagcctgg accacggaga 300
ttttctgcac attgcaatc agattgcaag tggcatggaa tactgtctta gtaactttct 360
tgtccacaag gaccttgcca gctcgcaata ttttaatcgg agaggcaact ttcattgtaa 420
aggttttcag gacttggggg ctttccagag gaaattttac tccgtgattt tactacaggg 480
tacccaa
```

487

<210> 59

<211> 532

<212> DNA

<213> Homo sapiens

<400> 59

```
atagaagtct gggaaaaaaa taaaaacaga atttgagaac cttggaccac tccgtccct 60
gtagctcagt catcaaaaga gaagtctgga tttgctctat taagattgga aatgtacact 120
accaaacact cagtcactg ttgagcccca gtgctggaag ggaggaaagg cttttctctg 180
tggttaattgc gtaaaggcta caggggttag cctggactaa aggcacacct gtcttttgag 240
ctattcactc cagtacaaaa ggaatctaaagg gaagatcact gtagttagt tctgttgacc 300
tgtgcacctc ccccttgaaa atgtctgctg gtatttctaa ttcacagggt catcagatgc 360
ctgcttgata atatataaa aataaaaaaca accttcaact cttcctattg taatcgtgtg 420
ccatggatct gatctgtacc atgacctac ataaggctgg atggcacccc aggcctgagg 480
ccccatgta tggtgtggctg tgggtgtggg tgggagtgtg tctgctgagt aa 532
```

<210> 60

<211> 608

<212> DNA

<213> Homo sapiens

<400> 60

```
tacggccggg atagagtctg gaaaaaataa aaacagaatt tgagaacctt ggaccactcc 60
tgtccctgta gctcagtcac caaagcagaa gctctgcttt gctctattaa gattggaaat 120
gtacactacc aaacactcag tccactgttg agccccagtg ctggaaggga ggaaggcctt 180
tctctgtgtg taattgcgta gaggcacag ggggttagct ggactaaagg catcctgtgc 240
ttttgagcta ttcacctcag tagaaaagga tctaaaggga gatcactgta gtttagttct 300
gttgacctgt gcaacctaccc cttggaaatg tctgtcgtga ttctaatc cacaggatcat 360
cagatgcctg cttgataata tataaacaaat aaaaacaacc ttcacttctt cctattgtaa 420
tcgtgtgcca tggatctgat ctgtaccatg accctacata aggcctggatg gcacccagg 480
ctgagggccc caatgtatgt gtggctgtgg gtgtgggtgg gagtgtgtct gctgagtga 540
gaacacgatt ttcaagattc taaagctcaa ttcaagtgc acattaatga taaactcaga 600
tctgatca
```

608

<210> 61

<211> 480

<212> DNA

<213> Homo sapiens

<400> 61

```
tagatgacac tgatgattct caccagtctt atgagtctca ccattctgat gaatctgatg 60
aactggtcac tgattttccc acggacctgc cagcaaccga agttttcact ccagttgtcc 120
```

ccacagtaga	cacatatgat	ggccgaggtg	atagtgtggt	ttatggactg	agggtcaaat	180
ctaagaagtt	tcgcagacct	gacatccagt	accctgatgc	tacagacgag	gacatcacct	240
cacacatgga	aagcgaggag	ttgaatggtg	catacaaggc	catccccgtt	gcccaggacc	300
tgaacgcgcc	ttctgattgg	gacagccgtg	ggaaggacag	ttatgaaacg	agtcaggtgg	360
atgaccagag	tgtctgaaacc	cacagccaca	aggagtccag	attatataa	cggaagacca	420
atgatgagag	caatgagcat	tccgatgtga	ttgatagtca	ggaactttcc	aaagtcagcc	480

<210> 62  
 <211> 440  
 <212> DNA  
 <213> Homo sapiens

<400> 62	aggagatccg	gcagatgggc	actgagtgcc	attacttcat	ctgtgatgtg	ggcaaccggg	60
	aggaggtgta	ccagacggcc	aaggccgtcc	gggagaaggt	gggtgacatc	accatcctgg	120
	tgaacaatgc	cgccgttggtc	catgggaagg	gcctaatagga	cagtgtgatg	gatgcctctc	180
	tcaagtccca	acacatcaac	accctggggc	agttctggac	caccaaggcc	ttcctgcgcg	240
	gtatgtctga	gctgcagaat	ggccacatcg	tgtgctctca	ctccgtgctg	gcactgtctg	300
	ccatccccgg	tgccatcgac	taccgcacat	ccaaagcgctc	agccttgccc	ttcatggaga	360
	ctgtgacctg	ggggctgctg	gactgtccgg	gagtcagcgc	caccacagtg	ctgccccttc	420
	acaccagcac	cgagatgttc					440

<210> 63  
 <211> 589  
 <212> DNA  
 <213> Homo sapiens

<400> 63	ggcactgagt	gccattactt	catctgtgat	gtgggcaacc	gggaggaggt	gtaccagacg	60
	gccaaagccg	tcggggagaa	ggtgggtgac	atcaccatcc	tggtgaacaa	tgccgccgtg	120
	gtccatggga	agggccataat	ggacagtgat	gatgatgccc	tcctcaagtc	ccaaacacatc	180
	aacaccctgg	gcoagttctg	gaccacaaag	gccttctctg	cgcgatgctg	ggagctgcag	240
	aatggccaca	tcgtgtgcct	caactccgtg	ctggcactgt	ctgccatccc	cggtgcctac	300
	gactaccgca	catccaaagc	gtcagccttc	gccttcatgg	agagcctgac	cctggggctg	360
	ctggactgtc	cgggagtcag	cgccaccaca	gtgctgcctc	tcacaccagc	caccagatg	420
	ttccagggga	tgagagttag	gtttcccaac	ctctttcccc	cactgaagcc	ggagacgggtg	480
	gcccgaggga	cagtggaaag	tgtgcagctc	aaccaggccc	tcctctctct	cccatggaca	540
	atgcattgccc	tcgttatctt	gaaaagcata	cttccacagg	ctgcaactcg		589

<210> 64  
 <211> 313  
 <212> DNA  
 <213> Homo sapiens

<400> 64	gcataatttg	ctcgggggaag	ggttcttctg	attgtgggaa	gtgcatttgt	tctgtctgaag	60
	agtggtatata	ttctgggggag	ttctgtgact	gtgatgacag	agactgcgac	aaacatgatg	120
	gtctctatttg	tacagggaat	ggaatatgta	gctgtggaaa	ctgtgaaatg	tgggatggat	180
	ggaatggaaa	tgcatgtgaa	atctggcttg	gtccagaata	tccttaacaa	ttacatgaga	240
	gaggtctgga	ttcttatttt	ttctggggcca	ttagaacata	taaatgcgaa	ggaaccatg	300
	tatatccacc	act					313

<210> 65  
 <211> 223  
 <212> DNA  
 <213> Homo sapiens

<400> 65  
 tgtgaatcag cagatggcat attgtgctcg ggaagggtt cttgtcattg tgggaagtgc 60  
 atttggtctg ctgaagagtg gtatatattct ggggagttct gtgactgtga tgacagagac 120  
 tgcgacaaac atgatggctc cattttgtaca ggaatggaa tatgtagctg tggaaactgt 180  
 gaatgctggg atgagtgaa tggaaatgca tgtgaaatct ggc 223

<210> 66  
 <211> 424  
 <212> DNA  
 <213> Homo sapiens

<400> 66  
 ggtacagatt tagagcctgt aatcccagct acttgggagt ctaaggcaag agaatccctt 60  
 gaacctggga ggtggagatt gcagtgcagc gagatcacac cattgcccta cagcctgggt 120  
 gacagtgcga ctgccccaa gaaaaacaaa agagacagcc ctagtgcatt tgaagtgc 180  
 ctttgggtggg tcagctcttc cttttcttaa agaatagtac acattgcagc ccaggtagct 240  
 ctatgatcct gttctataga attcaaaaag tcgacaacct tccctttgttc ctttctgttt 300  
 tctctgccta cgttagttta aattggcagt gtctctgctg gaataaatcc atctctcttc 360  
 ctggctctcg ctgagatggc tgattaaatc cttgggtcac acccattatc tctttatcaa 420  
 atgg 424

<210> 67  
 <211> 487  
 <212> DNA  
 <213> Homo sapiens

<400> 67  
 ctgtaatccc agctacttgg gagtctaagg caagagaatc ccttgaacct gggagggtgga 60  
 gattgcagtg agctgcagtc acaccattgc cctacagcct ggggtgacagt gagactgccc 120  
 caagaaaaaa caaaagagac agccctagtgt atcttctaag ttgcctttgg tgggtcagtc 180  
 tttccttttc ttaaagaata gtacacattg acagccaggt agctctatga tccgtgttcta 240  
 tagaattcaa aaagtcgaca acccttcottt gttcctttct gttttctcg cctacgttag 300  
 ttttaattgg cagtgtctct gctggaataa tcccatctct cttcctggct tctgctgaga 360  
 tggctgatta aatccttggg tcacacccat tatctcttta tcaaatgttt gttcaggcta 420  
 ggctcagttg ttcacgcctg taatcccaac actttgggag actgaggagg gcagatcact 480  
 tgagctc 487

<210> 68  
 <211> 492  
 <212> DNA  
 <213> Homo sapiens

<400> 68  
 agtcgcgcac cgacgctcaa acgcgcgcct caaccgcag cctcctcctg cctcacccgc 60  
 cgaagatggc ggcctctcaa ctcctctctc ccgggcttcg gctctgcgc cctgcgccgc 120  
 gatctggggc aaacctggatc aagggatgtg ttgttctctt ttccaccagt gctcatcgcc 180  
 ataccaagtt ttatcacagt ccagtagaag ctgtaaaaaa catccctgat ggtgccacgg 240  
 ttttgggttg tgggttttgg ctatgtggaa ttccagagaa tcttatagat gctttactga 300  
 aaactggagt aaaaggacta actgcagtc gcaacaatgc aggggttgac aattttgggt 360  
 tggggctttt gcttcggtcc aagcagataa aacgcaggt ctcttcatat gtgggagaaa 420  
 atcgagaatt tgaacgacag taacttatct gtgaattaga agtggagctg acaccacagg 480  
 gcacacttgc tg 492

<210> 69  
 <211> 494  
 <212> DNA

<213> Homo sapiens

<400> 69

```
tttttttttt tttttttttt tccctttata aggcgatgta cataaatctg aggaatatgg 60
atgtctctct gagcaaatgc tccaatatcc acaatttctt caacctctac cactgtgggt 120
tctgcagctt tgcacatttg caagttgaaa ttccttgcac ttttctgtaa aatcacgttt 180
cctgctcggt ccgcctttcc ggctttccac aaagcaaaat cccctgtaat tgcctctccc 240
aaaataaagt gctgacctcc gaactccctc acctctcttg gcttattggc aatggcaaca 300
ctgccatctt tgttgatttt gatggggcgt cctcctctct gtaccagggt cccataccct 360
gttgggggtg aaaatgcagg aactccagcc ccgcctgccc ggatctctct agcaagtgtg 420
cctgtgggtg ttagctccac ttctaattca ccagataagt actgtcgttc aaattctgca 480
ttttctccca cata 494
```

<210> 70

<211> 462

<212> DNA

<213> Homo sapiens

<400> 70

```
catgatgtat tacaaggagg ccttctggaa gaagaaggat tactgtggct gcatgatcat 60
tgaagatgaa gatgtccaaa ttccaataac ctgggatgac accaagccag atgggttact 120
gcctgccatc atggggcttta ttcttgcccg gaaagctggt cgacttgcta agctacataa 180
ggaaataaag aagaagaaaa tctgtgagct ctatgccaaa gtgctgggat cccaagaagc 240
ttttacatcca gtgcattatg aagagaagaa ctggtgtgag gtagcagtact ctggggggctg 300
ctacacggcc tacttccctc ctgggatcat gactcaatat ggaagggtga ttctgcaacc 360
cgtgggcagg attttctttg cgggcacaga gactgccaca aagtggagcg gctacatgga 420
agggggcagtt gaggtctggag aacgagcagc tagggaggtc tt 462
```

<210> 71

<211> 626

<212> DNA

<213> Homo sapiens

<400> 71

```
catgatgtat tacaaggagg ccttctggaa gaagaaggat tactgtggct gctgatcatt 60
gaaaatgaag atgctcaatt tcaataacct tggatgacac caagccagat gggctactgc 120
ctgccatcat gggcttcatt ctggcccgga aagctggctc acttgctaag ctacataaag 180
aaataaggaa gaagaaaaa ttgtgagctc atgccaaagt ctgggatgcc caagaagctt 240
tacatccagt gcattatgaa gagaagaact ggtgtgagga gcagtactct gggggctgct 300
acacggccta cttccctctc gggatcatga ctcaatatgg aagggtgatt cgtcaaccgc 360
tgggcaggat tttctttgog ggcacagaga ctgccacaaa gtggagcgcc tacatggaag 420
gggcaagtga ggcctggagaa cgagcagcta gggaggtctt aaatggtctc ggggaaggtga 480
ccgagaaaag catctgggta caagaacctg aatcaaaagg cgttccagcg gtagaaatca 540
cccacacctt ctgggaaagg aacctgccct ctgtttcttg cctgctgaag atcatctggat 600
ttccacatca gtaactgccc tggggc 626
```

<210> 72

<211> 348

<212> DNA

<213> Homo sapiens

<400> 72

```
tggtgaactg gtcaccatg aaaaagggtt ttactacatc tattcccaaa catactttcg 60
atttcaggag gaaataaaag aaaacacaaa gaacgacaaa caaatggtcc aatattttta 120
caaatacaca agttatcctg acctatattt gttgatgaaa agtgctagaa atagtgtttg 180
gtctaaagat gcagaatatg gactctatct catctatcaa gggggaatat ttgagcttaa 240
ggaaaaatgac agaatttttg tttctgtaac aaatgagcac ttgatagaca tggaccatga 300
```

```

agccagtttt ttcggggcct ttttagttgg ctaactgacc tggaaaga 348

<210> 73
<211> 207
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 122, 123
<223> n = A,T,C or G

<400> 73
tcaactcagt ggaacacggt tctcccaaac agattttgta attccgaaaa ccacgcacgc 60
gcaaacatac gcatacacctc ccatgttctc ggacagttta tagctaccat aacctggcat 120
tnnccaaaac ataccattgt agactcttgg atacacaagg taattttaga gccacattag 180
gatgaacctt ctgaaaaagt tatgcat 207

<210> 74
<211> 497
<212> DNA
<213> Homo sapiens

<400> 74
gagcttaagg aaaatgacag aatttttgtt tctgtaacaa atgagcactt gatagacatg 60
gaccatgaag ccagttttttt cggggccttt ttagttggct aactgacctg gaaagaaaaa 120
gcaataacct caaagtgact attcagtttt caggatgata cactatgaag atgtttctaaa 180
aaatctgacc aaaacaaaac aacagaaaaa agaaaaacaaa aaaacctcta tgcaatctga 240
gtagagcagc cacaaacaaa aaattctaca acacacactg ttctgaaagt gactcaactta 300
tcccaagaaa atgaaattgc tgaagatct ttcaggactc taactcatat cagtttgcta 360
gcagaaatct agaagactgt cagcttccaa acattaatgc aatggttaac atctctgtgc 420
tttataatct actccttgta aagactgtag aagaaagcgc aacaatccat ctctcaagta 480
gtgtatcaca gtagtag 497

<210> 75
<211> 275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 96
<223> n = A,T,C or G

<400> 75
tgagcttaag gaaaatgaca gaatttttgt tctgtaacaa aatgagcact tgatagacat 60
ggaccattgaa gccagttttt tcggggcctt tttagntggc taactgacct tggaaagaaa 120
aagcaataaac ctcaaaagtga ctattcagtt ttcaggatga tacactatga agatgtttca 180
aaaaatctga ccaaaaacaaa caaacagaaa acagaaaaaa aaaaaacctc tatgcaatct 240
gagtagagca gccacaacca aaaaattcta caaca 275

<210> 76
<211> 530
<212> DNA
<213> Homo sapiens

<400> 76

```

gacagaaggg	gcctctccgc	cccgcgcca	gctcgcccag	ctcgcccagc	gtccgcccgc	60
cctcgcccaa	ggcttcaacg	gaccacacca	aaatgccatc	tcaaatggaa	cacgccatgg	120
aaacatgat	gtttacattt	cacaaattcg	ctggggataa	aggctactta	acaaaggagg	180
acctgagagt	actcatggaa	aaggagttcc	ctggattttt	ggaaaatcaa	aaagaccctc	240
tggtgtgtga	caaaataatg	aaggacotgg	accagtgtag	agatggcaca	gtgggcttcc	300
agagcttctt	ttccctaatt	gcggggcctca	ccattgcatg	taatgactat	ttttagtagc	360
acatgaagca	gaagggaaga	aagtaggcag	aaatgagcag	ttcgtctctc	cttgataaga	420
gttgtcccaa	agggctcgctt	aaggaaatctg	ccccacagct	tcccccatag	aaggatttca	480
tgagcagatc	aggacactta	gcaaatgtaa	aaataaaatc	taactctcat		530

<210> 77  
 <211> 341  
 <212> DNA  
 <213> Homo sapiens

<400> 77	gcctctccgc	cccgcgcca	gctcgcccag	ctcgcccagc	gtccgcccgc	cctcgcccaa	60
	ggcttcaacg	gaccacacca	aaatgccatc	tcaaatggaa	cacgccatgg	aaacatgat	120
	gtttacattt	cacaaattcg	ctggggataa	aggctactta	acaaaggagg	acctgagagt	180
	actcatggaa	aaggagttcc	ctggattttt	ggaaaatcaa	aaagaccctc	tggtgtgtga	240
	caaaataatg	aaggacotgg	accagtgtag	agatggcaca	gtgggcttcc	agagcttctt	300
	ttccctaatt	gcggggcctca	ccattgcatg	taatgactat	t		341

<210> 78  
 <211> 350  
 <212> DNA  
 <213> Homo sapiens

<400> 78	ggcctctccg	cccgcgctgc	agctcgccca	gctcgcccag	cgccgcccgc	gcctcgccca	60
	aggcttcaac	ggaccacacc	aaaatgccat	ctcaaatgga	acacgccatg	gaaacccatga	120
	tggtttacatt	tcacaaattc	gctggggata	aaggctactt	acaaaggagg	gacctgagag	180
	tactcatgga	aaaggagttc	cctggatttt	tggaataatca	aaaagaccct	ctggctgtgg	240
	acaaaataat	gaaggacotg	gaccagtgtg	gagatggcaa	agtgggcttc	cagagcttct	300
	tttccctaatt	tgccggccctc	accattgcat	gcaatgacta	ttttgtagta		350

<210> 79  
 <211> 171  
 <212> DNA  
 <213> Homo sapiens

<400> 79	acagaaggga	caaagagatc	tggacagaat	cgccggacag	gtggcagctg	ccaaacagaa	60
	gcattagaac	aaacatgctc	gggttaataa	attgcctcat	tcgtaaacaa	aaaaaaaaaa	120
	aaaaaaaaaa	agtttttttt	ttttccccc	attttttatt	ttttttcccc	c	171

<210> 80  
 <211> 389  
 <212> DNA  
 <213> Homo sapiens

<400> 80	tgccgctgtg	ttctatggag	gaaaacaaag	caggagaggg	gagagtgact	gctgggtaag	60
	gtcttctccc	acctcctttg	catctttgct	cacatgccag	cttctctctg	gcttcacaga	120
	ccaccaattt	ataatttcca	tttaaaactt	ccattttatt	tttttaattt	ttatttattt	180
	atttatttat	tacgagatgg	ggtttcgcct	ttgttgccca	agattgcacc	actgcactgc	240
	agcctgggtg	acagagcgag	actttgtcaa	aaagaagaa	agaagaaggg	aaaggaagga	300

aggaaggaag gaaggaagga aaagaaaaga aagggaaaaga aaaaagaaaa agaaagaaag 360  
 aagaaaaaaa aaaaaaaagg ggggcccc 389

<210> 81  
 <211> 430  
 <212> DNA  
 <213> Homo sapiens

<400> 81  
 tgcagataca gtggtggagt ggaagtttgc gttggtagag aatgggggag ttaccgcgtg 60  
 ggaagaatgc agcaatagat tccatagaac tggccatgag gataaagtgg ttccagcatg 120  
 gtgggggatt cactgattca gtttgcatag taatggagaa gctgtagaac aatgtggaag 180  
 aagctgaggt tgtggaacac actgaataaa ataaaggcag tgtgactcca aattcagcca 240  
 tctgaattgt ttaaatattgc tagtgatttt tgtctactgt gcagaaatat atatgtctaa 300  
 tgtgcagaaa tatatatgtg tgtatgtgtg tatatatatg cacacacaca cagataatgc 360  
 ttccagtga tgtgaaactc ttttccctgt ggcaactgatt gacagacttg tgcgtatcca 420  
 ttattacttt 430

<210> 82  
 <211> 556  
 <212> DNA  
 <213> Homo sapiens

<400> 82  
 tttttttttt tttttttttt ttttttttaa gatattaaaa ttcaggtttt attattttgt 60  
 cagttataat aatttaagtt aatatttgc tttattctcag agcaaagatg tattttctgta 120  
 ccactgtcct gtataaaatt gttaccocag atagtgaactg gtatgaaaag agagggaaga 180  
 ggggtgacaga tggaaacgat tgcgttagga cagtcctatc ggccagatgc ggtgggggag 240  
 gggagaagaa gtggggagaga gatggctcta cagatgtccc catgggtaaa tgatgggtgc 300  
 atccctccct gcagtcgggc tgtgcctgaa ctccacagtc ctctaaagag tgctattcag 360  
 gccacctcac tcagcctatg cccaaccoca ctcaacttcc ctttccttat gggctgcccc 420  
 cgcaactgac ttccatgggtg attgggttctc attaggccct ttgtttctac accagcctta 480  
 gatcattaag acaaaagcgt acttgctacc ctcatagcac ataacaagc ctggcagatg 540  
 aaatcaaac aaaaag 556

<210> 83  
 <211> 543  
 <212> DNA  
 <213> Homo sapiens

<400> 83  
 tgcagtgagc atgtcgggag ggaagggtcac agtccctgaa aagtcctctg atcaaaaggc 60  
 caactgaagc aatacttcta cgagaccaaag tgcaattcca tgggtttacac aaaagaaggc 120  
 tgcaggggca tagacaaaag gcattggaac tcccagtgcc gaactaccoca gtctgacgtg 180  
 cgggccctta ccatggatag caaaaagaga attggctggc gattcataag gatagacact 240  
 tcttgtgtat gtacattgac cattaaaaag ggaagatagt ggattttatg tgtatagatt 300  
 agattatatt gagacaaaaa ttatctattt gtatatatac ataacagggt aaattattca 360  
 gtttaagaaa aaataatttt atgaactgca tgtataaatg aagttttatc agtcacagtg 420  
 ttctacaatc tatttatttg acatgtccat gaccagaagg gaaacagtc tttgcgcaca 480  
 acttaaaaag tctgcattac attccttgat aatgttgtgg ttgtgtgccc ttgccaagaa 540  
 ctg 543

<210> 84  
 <211> 242  
 <212> DNA  
 <213> Homo sapiens



```

<400> 84
cggcggcaga caaaaagact gcagtggaca tgtcggggcg gacggtcaca gtcccttgaa 60
aggtccctgt atcaaaaggc caactgaagc aatacttcta cgagaccaag tgcaatccca 120
tgggttacac aaaagaaggc tcagggggca tagacaaaag gcattggaa cccagtgcc 180
gaactaccca gtcgtactgt cgggccctta ccatggatag caaaaagaga attggtggc 240
ga 242

<210> 85
<211> 350
<212> DNA
<213> Homo sapiens

<400> 85
tttttttttt tttttttttt tttttttttt tttttttttt ttattatta attatcttct 60
ttattaatac tcacatgtaa cctttgcttt ttacacaaaa gtctgcttta gaagaatgcc 120
tctcgggctt atcatgccca atggggcttt ttgtttctgg accactccc ctttctccac 180
ccccaccccc acatccaaat tactcttaac atgttcacag ataccacgaa tattttgtaa 240
acaagatttg ggttactgga acttgatttc attaacatcc cacttcaaaa tgggaaggcag 300
tgggaggaca gggtaagaaa taggagaaag aggacaagag aaggcaaaaga 350

<210> 86
<211> 448
<212> DNA
<213> Homo sapiens

<400> 86
acagttttaag aagtgtgtac attttgcatt atgaatgacc tgacttttag ccaccaggta 60
ctctttaaac agtttttctt atcagaggcc ctccctgtgt ggtgaccacag catctgagtt 120
aggttccagc atgtaaaagc ctggggaggg ggagaattct tagcatacat tcagacgttt 180
ttttgcaca ataataagtc catctgtcac ttgcattcca ctttttgtaa catagaaaaga 240
gtctgcacct ttaatccaaa aggtcttttt acattgtgaa tgctgtggga aggcaatttc 300
tctgcacaca agaggctacg ttttggaagt gatgtatgt atttgatgac tgaaaatgaa 360
ctgtaaatgc tcttagagta tattctcttg ctgaacaaaa ttaaaattca aaaaaatcta 420
acagtaaacac acccctgctt gggaccct 448

<210> 87
<211> 586
<212> DNA
<213> Homo sapiens

<400> 87
aatttacaga acagttttaag aagtgtgtac attttgcatt atgaatgacc tgacttttag 60
ccaccaggta ctctttaaac agtttttctt atcagaggcc ctccctgtgt ggtgaccacag 120
catctgagtt aggttccagc atgtaaaagc ctggggaggg ggagaattct tagcatacat 180
tcagacgttt tttctgcaca ataataagtc catctgtcac ttgcattcca ctttttgtaa 240
catagaaaaga gtctgacctt ttaatccaaa aggtcttttt acattgtgaa tgctgtggga 300
aggcaatttc tctgcacaca agaggctacg ttttggaagt gatgtatgt atttgatgac 360
tgaaaaatgaa ctgtaaatgc tcttagagta tattctcttg ctgaacaaaa ttaaaattca 420
aaaaaatcta acagtaaacac acccctgctt gggaccct 448
cttgccatgc ttcagtgaa atactaatto tatgtctagc acatgttgat ttcctatgta 540
ttctgggtat tctattaaag gaaactttga actatgtcaa aaaaaa 586

<210> 88
<211> 203
<212> DNA
<213> Homo sapiens

```

```

<400> 88
aatgaattta cagaacagtt taagaagtgg tgacattttg catgatgaat gacctgactt 60
ttagccacca ggtactcttt aaacagtttt ccttatcaga ggccctcctg tgcgtggtgac 120
ccagcatctg agttaggttc cagcatgtaa agagctggga gggcggagaa ttcttagcat 180
acattcagac gttttttctg cac
203

```

```

<210> 89
<211> 548
<212> DNA
<213> Homo sapiens

```

```

<400> 89
tgctggaagg cattcgcatc tgcggggcag ggettcgcga accggatcgt ctccaggag 60
ttccgccaac gctacgagat cctggcggcg aatgccatcc ccaaaggctt catggacggg 120
aagcaggcct gcattctcat gatcaaaagg ctggaacttg accccaactt atacaggata 180
gggcagagca aaatctttct ccgaactggc gtccctggccc acctagagga ggagcgagat 240
ttgaagatca ccgatgtcat catggccttc caggcgatgt gtcgtggcta ctggccaga 300
aaggcttttg ccaagaggca gcagcagctg accgccatga aggtgattca gaggaactgc 360
gctgcctacc tcaagctgcg gaactggcag tggtagaggg tttccaccaa agtgaagcca 420
ctgctgcagg tgacacggca ggaggaggag atgcaagcca aggaggatga actgcagaag 480
accaaggagc ggcagcagaa ggcagagaat gagcttaagg agctggaaca gaagcactcg 540
cagctgac
548

```

```

<210> 90
<211> 595
<212> DNA
<213> Homo sapiens

```

```

<400> 90
tgcaatgggg tgctggaagg cattcgcatc tgcgggcagg gcttcccca cccggatcgtc 60
ttccaggagt tccgcccaac ctacgagatc ctggcggcga atgccatccc caaaggcttc 120
atggacggga agcaggcctg cattctcatg atcaaaagccc tggaaactga ccccaactta 180
tacaggatag ggcagagcaa aatctttctc cgaactggcg tccctggccc cctagaggag 240
gagcgagatt tgaagatcac cgatgtcatc atggccttcc aggcgatgtg tctgtggtac 300
ttggccagaa aggctttttg caagaggcag cagcagctga ccgccatgaa ggtgattcag 360
aggaactcgc ctgcctacct caagctgcgg aactggcagt ggtggaggct ttccaccaa 420
gtgaagccac tgctgcaggt gacacggcag gaggaggaga tgcaggccaa ggaggatgaa 480
ctgcagaaga ccaaggagcg gcagcagaag gcagagaatg agcttaagg gctggaacag 540
aagcactcgc agctgaccga ggagaagaac ctgctacagg aacagctgca ggcag
595

```

```

<210> 91
<211> 498
<212> DNA
<213> Homo sapiens

```

```

<400> 91
tgacagagca agacttggtt tcaaaaaaga gaaacacagt tggccctcca tatctgagtt 60
tcacagacga aaaatattca gaagaaaaaa aaatcaatgg ctgtatttgt actaaacatg 120
cccaggcttt ttttcttatt gttatcccc aaacaataca acaactattt ttatagcatt 180
tacattgtat tagatgttat aactactcta aagaggattt aaagtatatg gaatgatgtg 240
cataggttat atgcaaatca tatactattt atatcaggga cttgagcatc ctgtgatttt 300
ggatgtgtg ggaagtcctg aaaccaatgt cctgtggata ctgaaggata actgtactaa 360
ttttggagatt ttctctact atgatcaaga ttttcaaaaa ttacatttgt gattacatta 420
catcgttaca ttgtgatttc ttccaagact tgagataaag tttgggaaga agtagccact 480
gtttcagttt atgaataa
498

```

```

<210> 92

```

```

<211> 510
<212> DNA
<213> Homo sapiens

<400> 92
aaacacagtt ggcctccat atctgagttt cacagacgaa aatatcag aagaaaaaa 60
aataaatggc tgtatttgta ctaaacatgc ccaggctttt tttctattg ttatccccta 120
aacaatacaa caactathtt tatagcattt acattgtatt agatgttata actactctaa 180
agaggattta aagtatatgg aatgatgtgc atagggtata tgcaaatact atactattta 240
tatacgggac ttgagcatcc ttggattttg gtatgtgtgg gaggtctcga aaccaatgtc 300
ctgtggatac tgaaggataa ctgtactaat ttggagattt ctctctacta tgatcaagat 360
tttcaaacat tacattgtct attacattac atcgttacat tgtgattctt tccaagactt 420
gagataaagt ttgggaagaa gttaccaact gtttcagttt atgaaataga aaaaaaaaaa 480
aggggtaag catgaaataa aaacctaaac

<210> 93
<211> 299
<212> DNA
<213> Homo sapiens

<400> 93
tggatcccc gggctgcagg aattcggcac gacgagaagt gctgagacg cggagacatg 60
gctggtgtta aatgagatga ttcaatagca gtgacgcgct ctctcagcc accaaatgtc 120
ctgcacaccc tccccagccc ccacagataa catcagctga ggtttttttc agtatgaacc 180
tgtcctaagt caattctcca aagtgtgcac aaaactaaag aatataaata aacaaaagaa 240
aggtgaaaaa aaaaaaaaaa aaaaaaactc gggggggggc ccgggcccce attccccct 299

<210> 94
<211> 234
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 163, 189, 219, 222, 225, 226, 228, 233
<223> n = A,T,C or G

<400> 94
cagaagtgc tgagacgcgg agacatggct ggtgttaaat ggagctattc aatagcagtg 60
acgcgccttc ctacagccac aaatgtccct gacaccctcc ccagccccc accataaacat 120
cagctgaggt ttttttcagt atgaacctgt cctaaatcaa ttctcaaaag tgtgcacaaa 180
actaaagant ataaataaac aaaagaaagg tgaaaaaana anaannanaa aana 234

<210> 95
<211> 534
<212> DNA
<213> Homo sapiens

<400> 95
tgaagcagaa gtacctggac tatgccagag tccccaatag caatccccct gaatatgagt 60
tcttctgggg cctgcgctct tactatgaga ccagcaagat gaaagtcttc aagtttgctt 120
cgaaggttaca aaagaaggat cccaaggaat gggcagctca gtaccagag gcgatggaag 180
cagatttgag ggctgcagct gaggtcgac ctgaagccaa gtctaggggc gagattlagag 240
ctcgaatggg cattgggctc ggctcgagga atgctgccgg gcctgcaac tgggacgaag 300
ctgatatcgg accctgggccc aaagcccggg tcaggcgagg agcagaagct aaagccaaag 360
cccaagagag tggcagtgcc agcaactggt ccagtagccag taccataaac agtgccagtg 420
ccagtgccag caccagtggt ggcttcagtg ctggtgccag cctgaccgcc actctcacat 480

```

ttgggctctt cgctggcctt ggtggagctg gtgccagcac cagtggcagc tctg 534

<210> 96

<211> 351

<212> DNA

<213> Homo sapiens

<400> 96

tttttttttt tttttttttt tttctgaaat ggcaaataga tttaatgcag agtgtcaact 60  
tcaattgtatt gatagtggct gccatagatg ctgtgtttgag taggtttctg aggatgcacc 120  
ctggcttgaa ggcagaagact ggcaggatta acaatatcta aaatctcact tgtaggagaa 180  
accacaggca ccagagctgc caactggtgct ggcaccagct ccaccaaggc cagcgaagag 240  
cccaaatgtg agagtggcgg tcaggctggc accagcaactg aagccaccac tgggtgctggc 300  
actggcactg gcactgttat tggtaactggt actggcacca gtgctggcac t 351

<210> 97

<211> 610

<212> DNA

<213> Homo sapiens

<400> 97

tttatgaatg ataaagatgt ttccggaaaag atgaacaggt cacaatttga agaactctgt 60  
gctgaacttc tgcaaaagat agaagtaccc ctttattcac tgttggaaaca aactcatctc 120  
aaagtagaag atgtgagatg agttgagatt gttggaggca ctacagaatg tccagctgtg 180  
aaggaaagaa ttgccaaatt ctttggaaaa gatattagca caacactcaa tgcagatgaa 240  
cagtagacca gaggatgtgc attacagtgt gcaatacttt ccccgccatt taaagttaga 300  
gaatttttcg tcacagatgc agttcccttt ccaatatctc tgatctggaa ccatgattca 360  
gaagatactg aaggatgttca tgaagtcttt agtcgaaacc atgctgcttc ttctccaaa 420  
gtttctcact ttctgagaag ggggcctttt gagctagaag ctttctattc tgatcccaa 480  
ggagtctcat atccagaagc aaaaataggc cgctttgtag ttcaagatgt ttctgcacag 540  
aaagatggag aaaaatctag agtaaaagtc aaagtgcgag tcaacacca tggcattttc 600  
accatctcta 610

<210> 98

<211> 551

<212> DNA

<213> Homo sapiens

<400> 98

tttttttttt tttttttttt tagcattatc atcttaccct ctgtctcaat atacatgtta 60  
agaaggtctt tccctaactg ccagaccaag ttggcttcaa taggcagctc aacattcacc 120  
acctttattt tgggcttttt agcttctgga ggctggtcaa cttttttttc atttgccttg 180  
tcagcatctg ggaattttgt ttctctgag gtaagttcag gtgaaggggg agactgtgag 240  
gtttgttgag catcagtttg tacctggggc tgtgttccag ctccactggt gtcttgctgg 300  
acatttttat cagtgtctgg gttttctggt ggtctctgat tcagacactc catgtcagct 360  
tcagaagaca ttctattctc ctcaagtggg actttctcca ccatagatgc cgtagagatg 420  
gtgaaaatgc catgggtgtt gactcgcact ttgactttta ctctagattt ttctccatct 480  
ttctgtgcag aaacattctg aactacaaag cggcctattt ttgcttctgg atatggaact 540  
ccttggggat c 551

<210> 99

<211> 550

<212> DNA

<213> Homo sapiens

<400> 99

tgtgggctc tatttttctt ttggctttct ggtgagagag tgaggaaaca ttctttcctt 60

cactaagttt	gtctttcttg	tcttctggat	agattgattt	taagagacta	agggaaattt	120
caaaactaag	attttagtca	tctgggtggaa	aaggagactt	taagattgtt	tagggctggg	180
cggggtgact	cacatctgta	atcccagcac	tttgggaggc	caaggcaggc	agaacacttg	240
aaggagtctg	agaccagcgt	ggccaacgtg	gtgaaacctt	gtctctacta	aaaatacaaa	300
aattgttttag	ctctgttttt	cataatagaa	atagaaaagg	taaaattgct	tttcttctga	360
aaagaacaag	tattgtttcat	ccaagaaggg	tttttgtgac	tgaatcagca	gtgcctgccc	420
tagctatagc	tgtgtctcaa	aaacctcagc	atgattagtg	tgggagcaaa	acaagggaagc	480
aaagcaaat	ctgtttttga	aattctatct	gttgcttgaa	ctattttgta	ataattaaac	540
tttgatgttg						550

<210> 100  
 <211> 300  
 <212> DNA  
 <213> Homo sapiens

<400> 100	ctaagcttta	agatttaaaa	aatgttcaat	gttgaaattt	ctgtggggct	ctattttttgc	60
	tttggctttc	tggtgagaga	gtgaggaagc	attcttttct	tcactaagtt	tgtcttttctt	120
	gtctttctga	tagattgatt	ttaagagact	aagggaattt	acaaactaaa	gatttttagtc	180
	atctggttga	aaaggagact	ttaagattgt	ttagggtctg	gcgggggtgac	tcacatctgt	240
	aatcccagca	ctttgggagg	ccaaggcagg	cagaacactt	gaaggagttc	aagaccagcg	300

<210> 101  
 <211> 583  
 <212> DNA  
 <213> Homo sapiens

<400> 101	gtttgagtca	tgagcatgct	gttgtctaga	gtgggcgggg	atgacgtggt	tggagtgggt	60
	gcgctgctct	gtacttgatt	tttttgagtc	tgaatttagc	tttccaggct	ggggcaggga	120
	ggggagacaca	ggtggatcag	tactgcccc	aagcgggtga	gcttttggtg	tggtacaaat	180
	actgctgccg	cctgtctgca	caaacatatt	tctctcttcc	agcccttcag	aagtgtattg	240
	gaatatgtcg	ataacaataa	tgatggtggt	gaagatgatg	atgatgtggg	taattctggc	300
	taccttattg	ggtccaagct	ccccacaatt	cgttgacaaa	agcactctac	atacattctc	360
	tttagtctcg	atcaaaaccac	ctttcagagt	aggatttagt	gtcctatttt	aaagatgaag	420
	gagctcgggc	tcagagagag	atcgtttaga	cacacacaca	acttttgaat	gaaacattta	480
	cagccggggc	cggtggcgcg	tgctgttagt	ccagctact	tgggaggctg	aggctggagg	540
	atcgcttgag	tcaggagatt	ctgggctgta	gtgcgctatg	ccg		583

<210> 102  
 <211> 517  
 <212> DNA  
 <213> Homo sapiens

<400> 102	cccgggaaggc	gacgggaagg	agccgagctt	gggtcatggc	ggcgccgggc	gcgctgctgg	60
	tgatggggctg	gagcggctcg	gggaaatcca	ccgtggggcg	cctgtgggca	tctgagctgg	120
	gatggaaatt	ctatgatgct	gatgattatc	accgggagga	aaatcgaaag	aagatgggaa	180
	aaggcatacc	gctcaatgac	caggacogga	ttccatggct	ctgtaacttg	catgacattt	240
	tactaagaga	tgtagctcgc	ggacagcgtg	tggttctagc	ctgttcagcc	ctgaagaaaa	300
	cgtacagaga	catattaaaca	caaggaaaag	atggtgtagc	tctgaagtgt	gaggagtcgg	360
	gaaaggaaagc	aaagcaggct	gagatgcagc	tccgtgtggt	ccatctgagc	gggtcgcttg	420
	aggtcatctc	tggacgctta	ctcaaaagag	agggacattt	tatgccccct	gaattattgc	480
	agtcaccagt	tgagactctg	gagcccccag	cagctccc			517

<210> 103

<211> 590  
 <212> DNA  
 <213> Homo sapiens

<400> 103  
 tttttttttt tttttttttt ttttttacta gccaagtctt atttatttgt gcaataacag 60  
 gcatgagcaa gaatgtttcta aacaatgtaa cgaattccag cattgtattac agaatttcc 120  
 ctgatcattt gatttgggta tagatgaatt taaacttcaa ttttaagcttg acttttataaa 180  
 ctccccctct gcttccctgat gaaccagcat aattcctaaa attacacctta aacaagtctg 240  
 tottgacaaa ttgggggttg ccttttagaaa catttagaat ctattatggg caaggcggct 300  
 ggaacagagt ttggggtggc acaatgattt atgottagt ttgtttggac cactgataca 360  
 aatcatttgt catttcattt ttagggtttc cataattgta gcaattatct ctgaaacatt 420  
 tttgtccaca cttatttgga taaagttttc tggagctgct gggggctcca gagtctcaaa 480  
 ctgggactgc aataattcag ggggcataaa atgtccctct cttttgagta agcgctccaga 540  
 gatgacctca aacgaccctc tcagatggac caccaggagc tgcattctac 590

<210> 104  
 <211> 116  
 <212> DNA  
 <213> Homo sapiens

<400> 104  
 gacacttaca aattgtctgt tgtccaaatc aggatccact gcaaggaaac acaggccctta 60  
 ttccactgct ggggatttgg gtgtggggagc acgcttacta ccttcagtat aaaaat 116

<210> 105  
 <211> 574  
 <212> DNA  
 <213> Homo sapiens

<400> 105  
 ttcttttttt tttttttttt ttggcacaac gcatttacta ttttcaatca ctgcccatt 60  
 aacaaaatgt tttagtaagaa attattoaga acatttaagt gtttatgaaa taagtacta 120  
 agcaacatca agaaatgcta caatagagca gcttactgta ttctgcagta ctctatacca 180  
 ctacaaaaac agtcataaag agcttaacat actcagcata acgatcgttg tctacttttt 240  
 gcaagccatg tatctttcag ttacatttct ccagttgatt acattccaaa tagcttttag 300  
 ataatacagg ctgacatttt tatactgaag gtatgaagcg tgctccacca caccatccc 360  
 gcagcagctg ataaggccct ttgttccctg cagtggtatc tgatttggac aagcagcata 420  
 ttgttaagtgt ccccgcttct tattgaaacc aagccaaccc caacctgagc ctgggacacc 480  
 aacagatgca gccgtcagct tctccttaaa ctgtgcaaa gacccaaagt cacgtttgat 540  
 ggcttccagc aactccccct tgggtttctc acca 574

<210> 106  
 <211> 474  
 <212> DNA  
 <213> Homo sapiens

<400> 106  
 tttttttttt tttttttttt ttgggggggt gacagattct tttattaaca gtcaaaaact 60  
 tcacacaaat ggaaaataaa tgttttctta atgaataatc aacaaaaaat tatccaggac 120  
 cttataggggt tttcagtatg taccaggctt gatgcacatc ttagaagaca ggacattatc 180  
 ttgtcgggat cattaggata tgatcagcat aacgatcgtg attacttttt tgcaagccat 240  
 gtatctttta gttacattct cccagttgat tacattccaa atagctttta gataatcagg 300  
 cctgacattt ttatactgaa ggtagtgaag gtgctcccac acatcaatcc ccagcagtg 360  
 aataaggcct gttgttccct gcagtggtat ctgatttggg caagcagcaa tttgtaagt 420  
 tccccgttcc ttattgaaac caagccaacc ccaacctgag ctttggacac caac 474

```

<210> 107
<211> 526
<212> DNA
<213> Homo sapiens

<400> 107
gggaacccggg ggcgcggcgc actgcgcagg cggccgggact cgcctcagtt tccgggtgcgg 60
cgaacaccaa agtccgggaa cttaagcatt ttcgggtttct aggggttgta cgaagctgca 120
ggagcgcagat ggagggtggac gcaccgggtg ttgatgggtc agatgggtctc cgggagcggc 180
gagggctttag cgagggcagg aggcagaact tcgatgtgag gcctcagttct ggggcaaatg 240
ggcttcccaa acactcctac tgggttgacc tctggctttt catccttttc gatgtgggtg 300
tgtttctctt tgtgtatttt ttgccatgac ttgttcgctg atatctaaat taagaagttg 360
gttctttgagt gaattctgaa aatggctaca aactttctga ataaagaaga caggactctc 420
aatagaagaa ttccacatct ccaagggacc ctccctttca ttttacactt tgttactaat 480
ttgcagaact ctattaatgt ggtaggattt caccatttcc tagcta 526

<210> 108
<211> 344
<212> DNA
<213> Homo sapiens

<400> 108
gaacccgggg cgcggcgcaac tgcgcagtcg gccggactcc gctcagtttc cgggtgcggcg 60
aacaccaaaag tccgggaact taagcatttt cggtttctag ggttggttacg aagctgcagg 120
agcgagatgg aggttgacgc accgggtggt gatggtcgag atgggtctcgg ggagcggcga 180
ggcttttagc agggagggag gcagaacttc gatgtgaggg ctcagttctgg ggcaaatggg 240
cttcccaaac actcctactg gttggacctc tggttttca tctctttcga tgggggggag 300
cttctctctg tgtattttct gccatgacct gtccagtgac accc 344

<210> 109
<211> 332
<212> DNA
<213> Homo sapiens

<400> 109
gaacccgggg cgcggcgcaac tgcgcaggcg gccggactcc gctcagtttc cgggtgcggcg 60
aacaccaaaag tccgggaact taagcatttt cggtttctag ggttggttacg aagctgcagg 120
agcgagatgg aggttgacgc accgggtggt gatggtcgag atgggtctcgg ggagcggcga 180
ggcttttagc agggagggag gcagaacttc gatgtgaggg ctcagttctgg ggcaaatggg 240
cttcccaaac actcctactg gttggacctc tggttttca tctctttcga tgtggaggag 300
attctctttg tgtatttttt gccatgacct gt 332

<210> 110
<211> 545
<212> DNA
<213> Homo sapiens

<400> 110
cggctgcgag aagacgacag aaggggagtt tccgggtgcgg cgaacaccaa agtccgggaa 60
cttaagcatt ttcgggtttct aggggttgta cgaagctgca ggagcgagat ggaggtggac 120
gcaccgggtg ttgatgggtc agatgggtctc cgggagcggc gaggtcttag cgaggggagg 180
agccagaact tcgatgtgag gcctcagttc ggggcaaatg ggcttcccaa acactcctac 240
tggttgacc tctggctttt catccttttc gatgtgggtg tgtttctctt tgtgtatttt 300
ttgccatgac ttgttcgctg atatctaaat taagaagttg gttcttgagt gaattctgaa 360
aatggctaca aactttctga ataaagaaga caggactctc aatagaagaa ttccacatct 420
ccaagggacc ctccctttca ttttacactt tgttactaat ttgcagaact ctattaattg 480
ggtaggattt caccatttcc tagctaagtt cttaaaatta aaccctttgg ttcgtgttta 540

```

aaaaac

545

<210> 111  
<211> 329  
<212> DNA  
<213> Homo sapiens

<400> 111  
gagttttccgg tgcggcggaac accaaagtcc gggaacttaa gcattttccgg ttcttagggg 60  
tggttacgaag ctgcagggagc gagatggagg tggacgcacc ggggtgtgat ggtcagagatg 120  
gtctccggga gcggcgagagc tttagcgagg gagggaggca gaacttcgat gtgaggcctc 180  
agtctggggc aaatgggctt cccaaacact cctactgggt ggacotctgg cttttcatcc 240  
ttttcgatga ggaggtgttt ctctttgtgt attttttgce atgactttgt cgtcgatatac 300  
taaattttaca agttggatct tgagtgaata 329

<210> 112  
<211> 284  
<212> DNA  
<213> Homo sapiens

<400> 112  
gcgcggcgcc tgcgctcgcc gcgcgcctat cagccgaact agaactggtg cggaccaggg 60  
gaatccgaact gtttaattaa aacaaagcat cgcgaaggcc cgcggcgggg gttgacgcga 120  
tgtgattttct gcccagtgct ctgaatgcca tattaaaaat aaactttaaa attttaaaagg 180  
gggcccgtttt tctctgattc ccaccccgtt aaaaaccctt ttgggggggg gggccccccc 240  
ccctcatggg gcgggggaaa aaggcctttt ttgggaaatt tggg 284

<210> 113  
<211> 522  
<212> DNA  
<213> Homo sapiens

<400> 113  
gttgcaaggtc actgtagcgg gacttctttt ggttttcttt ctctttgggg cactctctga 60  
ctcactcccc agcatgaagg cgttgagccc ggtgcgcggc tgctacgagg cgggtgtgctg 120  
cctgtcgga aacagctctgg ccacgcgccg gggccgaggg aagggcccgg cagctgagga 180  
gccgctgagc ttgctggagc acatgaacca ctgctactcc cgcctcgagg aactggtacc 240  
cggagtcagg agaggcaact agcttagcca ggtggaaatc ctacagcgcg tcatcgacta 300  
cattctcgac ctgcaggtag tcttgccgca gccagccctt ggaccccctg atggccccca 360  
cttcccatc cagacagcgg agcccgcctc ggaacttgct atctccaacg acaaaaggag 420  
cttttgccac tgactccggc cgtgtcctga caactccaga acgcagggtg tggcgcccgt 480  
tctgcctggg accccgggaa cctctcctgc cgggaagccg ac 522

<210> 114  
<211> 510  
<212> DNA  
<213> Homo sapiens

<400> 114  
gttgcaaggtc actgtagcgg gacttctttt ggttttcttt ctctttgggg cactctctga 60  
ctcactcccc agcatgaagg cgttgagccc ggtgcgcggc tgctacgagg cgggtgtgctg 120  
cctgtcgga aacagctctgg ccacgcgccg gggccgaggg aagggcccgg cagctgagga 180  
gccgctgagc ttgctggagc acatgaacca ctgctactcc cgcctcgagg aactggtacc 240  
cggagtcagg agaggcaact agcttagcca ggtggaaatc ctacagcgcg tcatcgacta 300  
cattctcgac ctgcaggtag tcttgccgca gccagccctt ggaccccctg atggccccca 360  
cctcccatc cagacagcgg agcccgcctc ggaacttgct atctccaacg acaaaaggag 420  
cttttgccac tgactccggc gtgtcctgac acctccagaa cgcagggtgt ggcgcccgtt 480



```

ctgcctggga ccccggggaac ctctcctgcc 510

<210> 115
<211> 385
<212> DNA
<213> Homo sapiens

<400> 115
aatagtctgt gtccaagaaa ataagaatca cgtcatctag ctgtggacac tgagcaaaaa 60
ggagcagcat gctattaaga tggttgagac acacgagtg acaaagatgg gacaaactgt 120
gottcgttca agaagtttca tcaagacccc tacccgcccc cgtccctcag ctctgtacag 180
taacttttagc ttacatagag gctgagataa aaataaagct ttottacaaa ttacattttt 240
ttccagtgaa ttactttttg agtaaaaaata gctgtacatc aaatccctcc tgatctctga 300
aaaggagttg catattttca aaaataatat tctttatttta atcacacaga agaacgtgga 360
gcacaggaag gaaatggctg gctgg 385

<210> 116
<211> 645
<212> DNA
<213> Homo sapiens

<400> 116
tacggccggg tcttttaaaag aggcggggaa tacacatgac tcagggtgctc ttttgaaacg 60
actacaaaaag tctccatttt gatcaaaaacg ttttctccga atgaatggct ccgatgcttt 120
ctcttttccca tcttaagtc cgcctctgtg cctcagaata gtcctgtgccc aagaaaaataa 180
gaatcacgctc atctagctgt ggacactgag caaaaaggag cagcatgcta ttaagatggt 240
tgagacacac gagtgaacaa agatggggaca aactgtgctt cgttcaagag gtttcatcaa 300
gacccctacc gcccccgcgc cttcagctct gtacagtaac tttagcttta catagagctg 360
agataaaaat aaagctttct tacaatttac atttttttcc agtgaattac ttttgagta 420
aaaataagctc ctacataaat cctcctctgat ctctgaaaag gagttgcata ttcccaaaaa 480
taattattctt atttttaata cacagaagaa cgtggagcac aggaaggaaa tggctggctg 540
gtcagggaga ggtgagctgt cggagaacaa cagtaaaact aaaaaataaa atccattttg 600
tgtataaaat gaottaaacg catgcaaaag agtggaaaac atatg 645

<210> 117
<211> 500
<212> DNA
<213> Homo sapiens

<400> 117
atgtcgaggg aatgcagaaa gagttaagga aggcagggttg tctttctatt caggccaactc 60
ttcgtttttcc atgtactgca tgcgtgtttg ggcactttat cttcagacca ggatgaagg 120
agactgggca agactcttac gccccacact gcaatttgggt cttgttgccg tatccattta 180
tgtgggcccct tctcgagttt ctgattataa acacacactgg agcagatgtg tgaactggact 240
cattcaggga gctcgtgttg caatattagt tgcgttatat gtatcggatt tcttcaaaaga 300
aagaacctctt tttaaagaaa gaaaagagga ggactctcat acaactctgc atgaaacacc 360
aacaactggg aatcacatac cgagcaatca ccagccttga aaggcagcag ggtgcccagg 420
ttgagctggc ctgttttcta aaggaagatg attgccacaa ggcaagaaga tgcattcttc 480
ttcctggtgt acaagccttt 500

<210> 118
<211> 592
<212> DNA
<213> Homo sapiens

<400> 118
taagggaaggc aggttgcctc tctattcagg ccactcttcg ttttccatgt actgcatgct 60

```

gtttgtggca	ctttatcttc	aagccaggat	gaagggagac	tgggcaagac	tcttacgccc	120
cacactgcaa	tttggctctg	ttgccgtatc	cattttatgtg	ggcctttctc	gagtttctga	180
ttataaacac	cactggagcg	atgtgttgac	tggactcatt	cagggagctc	tgtgtgcaat	240
attagtgtct	gtatatgtat	cggatttctt	caagaaaaga	acttctttta	aagaaaagaa	300
agaggaggac	tctcatacaa	ctctgcatga	aacaccaaca	actgggaatc	actatccgag	360
caatcaccag	ccttgaaagg	cagcagggtg	cccaggtgag	gctggcctgt	ttcttaaagg	420
aagatgattg	ccacaaggca	agaggatgca	tctttcttcc	tgtgtacaaa	gcctttaaag	480
actcttgctg	ctgctatgcc	tcttggatgc	acactttgtg	tgtacatagt	tacctttaac	540
tcagtgggta	tctaatagtc	ctaaactcat	taaaaaaact	ccaagccttc	ca	592

<210> 119  
 <211> 197  
 <212> DNA  
 <213> Homo sapiens

<400> 119						
ggcgcgcctt	tttttttttt	tttttttttt	tttttttttg	ggaaaagggg	gtcttttttg	60
ggtccccccc	ccccctttta	aaaaccccc	taaaaaatgc	ccccaaaaaa	aaaaattttt	120
ttttttgggg	gggggggaaa	aaagggggaa	aaaaccccc	ccccccgggg	gggggaaaaa	180
acccccccaa	aaccccc					197

<210> 120  
 <211> 493  
 <212> DNA  
 <213> Homo sapiens

<400> 120						
tttttttttt	ttaattgtaa	aaactttatt	tactatttat	aaatacattg	caagacaaaac	60
ttctcaaaaa	tacttttccc	cccaaaaagt	taaaaaaata	aagaaaagct	aataggtagg	120
cagaatgtct	tgagacccct	ctgtttttcaa	ggagagctct	atgcagcgtg	tgtccacacc	180
gaggtctgca	gcaggggcaga	gtctccctga	gctgactttt	gccagacctt	cttgggtttg	240
gcctccggga	gagcagccca	gtctctgggt	cgcgcctctt	tctctcagta	tggccacagt	300
tgtatcatat	agcatctcta	acatttcto	taggatttat	tagtatagat	cttactatat	360
ttggggctat	gttgatata	atgttaacaa	gaacatatct	tctctgcata	tatgtgtgaa	420
ttataaagaa	aagcatgaga	atgactctaa	gttcaacaaa	catgggtgaa	tctctatgtg	480
ctcccagtgt	cct					493

<210> 121  
 <211> 265  
 <212> DNA  
 <213> Homo sapiens

<400> 121						
tgtgtacgct	gcagtagcgg	tccggaatto	cgggttgagc	ccacgcgtcc	gottcctgtt	60
ttctgtgtgc	aaatgatgat	aatgtgccat	gatgttttat	atatatcatt	cagaaaaagt	120
tttatttttt	aataaacatt	tattaacatt	attttgcttg	ccgctggcat	gctgaggaa	180
tgtatttggc	tttgattaca	cactaagttt	ttgtaataaa	tttgactcat	taaaaacctt	240
ttttttttaa	aaaaaaaaaa	aaaaa				265

<210> 122  
 <211> 186  
 <212> DNA  
 <213> Homo sapiens

<400> 122						
tttctgtttt	ctgtgtgtcaa	atgatataaa	tgtgccatga	tgttttttat	atatcattca	60
gaaaaagttt	tattttttta	taacatttcta	ttaacattat	tttgcttgcc	gctggcatgc	120

ctgaggaatg tattttggctt tgattacaca ctaagttttt gtaataaatt tgactcatta 180  
 aaaacc 186

<210> 123  
 <211> 475  
 <212> DNA  
 <213> Homo sapiens

<400> 123  
 cagcccgcttc ggcggcctctc cagcccgagg ttccgctctt cgactccccc gaccagctcc 60  
 gcggtgccttc ggcgggtgat gccaaataca gccatgaaga aaaaggtgct gctgatgggg 120  
 aagagcgggt cgggggaagac cagcatgagg tcgataaatc tcgccaaata cattgctcgc 180  
 gacaccgggc gccttgggggc caccattgac gtggaacact cccacgtccg attctcaggg 240  
 aacctgtgtc tgaacctgtg ggactgtggc ggtaaggaca ccttcattga aaattacttc 300  
 accagccagc gagacaatat ctcccgtaac gtggaagtgt tgatttacct gtttgacgtg 360  
 gacagccgag aactggaaaa ggacatgcat tattaccagt cgtgtctgga ggcacacctc 420  
 cagaactctc ctgacgccc aaactctctc ctgggtgcaca aaatggatct ggttc 475

<210> 124  
 <211> 122  
 <212> DNA  
 <213> Homo sapiens

<400> 124  
 agaaggggtg ctggagccta ggacgtcgag gctgcagtga gatatgatca caccactgca 60  
 ctccagcatg actgagtgag acctgtgttc aaaaaaaaaa aaaaaaaagt tttttttttt 120  
 tc 122

<210> 125  
 <211> 147  
 <212> DNA  
 <213> Homo sapiens

<400> 125  
 ggaggggaag gttggttagt aagctgtaac agattgctcc agttgcctta aactacgcac 60  
 atagctaaat gaccaaactt cttgttttga ttgaaaaaag tgcattgttt tcttgtccct 120  
 ccctttgatg aaacgtttacc ctttgac 147

<210> 126  
 <211> 607  
 <212> DNA  
 <213> Homo sapiens

<400> 126  
 cagtgaagac ttgcattgtt ttttactac tgcactctt accctgcacat gcgagaaaaa 60  
 ggtggaatgt ttaaaacacc ataatacagc cagggtattt gccaatctga aataaaagt 120  
 ggatgggaga gtgtgtcctt cagatcaagg gtactaaagt ccttttcgct gcagtgagt 180  
 agaggtatgt tgtgtgtgaa tgtacggatg tgtgttttgc tgcattgttg tgcattgttg 240  
 actgtgcagt tttatgtttc ccattgtggc aaagatttga aatgtaaagt tttatttatt 300  
 attttagaat gtgacataat gacgagccac actcggggga ggggaaggtt ggtaggtaag 360  
 ctgtaacaga ttgctccagt tgccttaaac tacgcacata gctaaagtgc caaacttctt 420  
 gttttgattt gaaaaaagtg cattgttttc ttgtccctcc ctttgatgaa acgttacctt 480  
 ttgacggggc ttttgatgtg aacagatgtt ttctaggaca aactataagg actaatttta 540  
 aacttcaaac attccacttt tgtaatttgt ttttaattgt tttatgtata gtaagcacia 600  
 ctgtaat 607

<210> 127

```

<211> 463
<212> DNA
<213> Homo sapiens

<400> 127
attccaatta gccaggaatg gaaggatgag aagcgggatt tgctgactga aggacaaagt 60
tttagcagcc ttgatgaaga agccctggga tcccgacaca ggccagacct ggtccctagc 120
actccatcac tgtttgaagc tgcttccttg gcaaccacaa ttccatcttc ttctttatac 180
gtcaatgagc actatccaca cgacaggcct acactctatt caaacagcaa agggttacct 240
tccagttcaa catttacctt ggaagagggg accatctact tgaccgctga gcccaacct 300
tcggaagtgc aggatgacaa tgcttctgtg cttagcgtct atttataagt gaaaatggtg 360
atcacctaag cacatggatg agacgtgagc acagttatgg cagagaagtt tctccgcacc 420
agaattatcc acagcaacct ggctgagccc cactacacac aga 463

<210> 128
<211> 592
<212> DNA
<213> Homo sapiens

<400> 128
ccaattagcc aggaatgga ggaatgaga cgggatttgc tgactgaagg acaaagtttt 60
agcagccttg atgaagaagc cctgggatcc cgacacaggc cagacctggt cctagcact 120
ccatcaactgt ttgaagctgc ttcttggca accacaattt catctctctc ctatacgtc 180
aatgagcact atccacacga caggcctaca ctctattcaa acagcaaaagg gttaccttcc 240
agttcaacat ttaccttgga agaggggacc atctacttga ccgctgagcc caacactctg 300
gaagtgcagg atgacaatgc ttctgtgctt gacgtctatt tataagtga aatggtgatc 360
acctaaagcac atggatgaga cgtgagcaca gttatggcag agaagtctt ccgcaccaga 420
attatccaca gcaacttggc tgagcccccac tacacacaga gaaatcatca acctgaacta 480
agagttttca agatgtcaac ttcaggctga tcagcagatg ggaatgtgaa aatactacc 540
tattctatca tttgctgttg cttgctgaac tgtgaagaac tgcataact at 592

<210> 129
<211> 251
<212> DNA
<213> Homo sapiens

<400> 129
caattagcca ggaatggaag gatgagaagc gggatttgc t gactgaagg acaaagttta 60
cgagccttga tgaagaagcc ctgggatccc gacacaggcc agacctggtc cctagcactc 120
catacactgtt tgaagctgct tccttggcaa ccacaatttc atctctctcc ttatacgtca 180
atgagcacta tccacacgac aggcctacac tctattcaaa cagcaaaagg ttaccttcca 240
gttcaacatt t 251

<210> 130
<211> 229
<212> DNA
<213> Homo sapiens

<400> 130
gtagcagaag cctcattcca gaaccatct gccagagaa gcagcagcat cctgggggat 60
ggcctgtcat ggggtgtaca ctgcctatag gcataggccc ggcatggctg tcgctggagc 120
ccagctgtgc acaccagcc acacctgctg cagcccgctg tagtgtgcgg ctccgggcct 180
gagcattcgc aaagctcgtc tctccaggga gctctctctt ggctttgga 229

<210> 131
<211> 316
<212> DNA

```

<213> Homo sapiens

<400> 131  
cgccataacc tggctcagaag tgtgcctgtc ggcggggaga gaggaacaat caagggttta 60  
aatctcggag aaatggcgtt cgtttgcttg gctatcggat gcttatatac ctttctgata 120  
agcacaacat ttggctgtac ttcatcttca gacaccgaga taaaagttaa cctcctctag 180  
gatttttgaga tagtggatcc cggataacta gggtatctct atttgaatg gcaaccccca 240  
ctgtctctgg atcatttttaa ggaatgcaca gtggaatatg aactaaaata ccgaaacatt 300  
ggtagtgaaa catgga 316

<210> 132  
<211> 270  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 37  
<223> n = A,T,C or G

<400> 132  
agtcgccata acctgggtcag aagtgtgcct gtccggcnggg agagaggcaa tatcaaggtt 60  
ttaaatctcg gagaatggc tttcgtttgc ttggctatcg gatgcttata taccctttctg 120  
ataagcacia catttggctg tacttcatct tcagacacgg agataaaagt taacctctct 180  
caggattttg agatagtga tcccgatac tttaggttatc tctatttgca atggcaaccc 240  
ccactgtctc tggatcatt taaggaaatgc 270

<210> 133  
<211> 341  
<212> DNA  
<213> Homo sapiens

<400> 133  
ttacatacgt ttttattact cggggggggac ctgtacgtca ccaatgccca gottcacggg 60  
ggcatgtagt gtgactcacg gctgaacaca aaatcactgt gaagcctgtg ctacagaagg 120  
atgtccagtc gctgaggcca ggagagaggt gggcaggcct gggctcggca gtggagacgg 180  
tcctccaggg agccgtttgg cagggaagccg tacaccaggc agtagaagcc gttctgagca 240  
cagttagccag caaagtcac aatgtttggg tgacgaaacc tggacagctg ctccacctcg 300  
gtcaggaagc tctgcttcac tgcagtcac tccaggtcac c 341

<210> 134  
<211> 466  
<212> DNA  
<213> Homo sapiens

<400> 134  
attatgtgat taatgatttg acagccgttc caatctccac gtctccagaa gagattccac 60  
atgggagttt ctcagactga ttcttgacct ctcaatgaaa gtgttgaaac aggatgggaa 120  
atattttaca caggggaact gtgtcaatct gacagaagca ctgtcgtctc atgaagaaca 180  
gtcggggcgc ctgtatttgc ctgtggaatt ttcaaaaggag atcgtctgtg tcccttcata 240  
cttggaaattg tgggtatttt acactgtttg gaagaagct aaacctgaa gatcagtagc 300  
ccctaatac atgtgtgcga aatagccttc ctgacctoca tatgctgtac atgacatcaa 360  
aatgagtcag gcaattgatt gtgaattcct taaagttttc ctttttttaa taattatttt 420  
taattttaaaa aagcaaatgg aaaatgtata ttttgatgag cttagg 466

<210> 135  
<211> 70

```

<212> DNA
<213> Homo sapiens

<400> 135
agttttccctt tttttaataa ttatttttaa tttaaaaaag caaatggaaa atgtatat 60
tgatgagctt 70

<210> 136
<211> 442
<212> DNA
<213> Homo sapiens

<400> 136
tttttttttt ttttttttcg ctcagtataa agcttccctt tcttagggac catgcaaaga 60
ttcttttgatt ctagaagtgc catttcatta tttctgtgac tctctgtcga atcatctgcc 120
aggtaactat cttgattttg tcttagcaat cgacttagca gaccattctt ggagaaagaa 180
aaatcctgag gtgaaacagg ctccgattta aagtcttcgg acactggtta ggcaggtgag 240
cttctctgca cagcaggagc cataccceag aatggggcac tcttagcatc atgggtcaag 300
tgacacattt tggttaggaat ttgtaagtca tcacaaggct cagattttat tttcaccatc 360
agtatttgtt caactaaagc tctctctgag tgttccctgag tacttttcac tcttaaggga 420
gttttctctt ttttttcaat ct 442

<210> 137
<211> 275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 244
<223> n = A,T,C or G

<400> 137
agaaaaatac aaaaaaatcg cattaataat attaatcctg catgctggac atgtatggta 60
ataattctta ttttgtacca ttttctgttt aacttttagc tgttgttgat catggatcat 120
actccctgtt tctctgggtg agaagggatc gccagtttgg aaactccggc ggctgcgtgc 180
ggggtttcag tccactgtta ggcttgtaaa tacgcgcccg ccaaacccga tagagacgtg 240
gcancactga gggctttgtt gggttatata cgtat 275

<210> 138
<211> 353
<212> DNA
<213> Homo sapiens

<400> 138
taagctcgga attcgggtcg aggaaaaata caaaaaatct gcattaaaaa tattaatcct 60
gcattctgga catgtatggt aataatttct attttgtacc attttcttgt ttaacttttag 120
catgtttgtg atcatggatc atactccctt tgtttctttg ggtgagaagg gatcgagtt 180
tggaactcc ggcgggtcgc tgcgggggtt cagtcaccagc tgtaggcttg taaataccgc 240
cccgcacaaa ccgcatagag aacgtggcag caagctgagg gtctttgttt gggtttatta 300
ttacgtgatt tttgtttgta agttaaaaaa aaaaaaaaaa gggggggccc cca 353

<210> 139
<211> 559
<212> DNA
<213> Homo sapiens

```

```

<400> 139
gaattttggcc ctcgaggcca agaattcggc actaggggcc agaaggacca gcagaaagat 60
gccgaggcgg aagggtctgag cggcacgacc ctgctgccga agctgattcc ctccggtgca 120
ggcggggagt ggctggagcg gcgcgcgcgc accatccggc cctggagcac ctctgtggac 180
cagcagcgct totcagcgcc ccgcaacctg ggagagctgt gccagcgctt cgtacgcaac 240
gtggagtaact accagagcaa ctatgtgttc gtgttctctg gctcatctct gtactgtgtg 300
gtgacgtccc ctatgttctg ggtggtctct gctgtctttt tcggcgcttg ttacattctc 360
tatctgcgca ccttggagtc caagctttgt ctctttggcc gagaggtgag cccagcgcat 420
cagtatgtct tggctggagg catctccttc cccttcttct ggctggctgg tcggggctcg 480
gccgtcttct ggggtgtggg agccacctg gtgggtcatcg gctcccacgc tgccttccac 540
cagattgagg ctgtggagc                                     559

```

```

<210> 140
<211> 711
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 444
<223> n = A,T,C or G

```

```

<400> 140
tttttttttt tttttttttt acaccataaa cagctttatt ttcaaaggcg ggatccctcc 60
ccgggcttgt gatgggacgg cgtctgtggc ccgagcagca aagccgtgca ggacaggcat 120
ggcgagggtt gggcgagctg gcccgggagg ccggcaggtc ccaaaagaca cctcacacgg 180
gttccatctg cagctcctcc ccgtccacag cctcaatctg gtggaaggca cgtggggagc 240
cgatgaccac cagggtgtgt cccagcacc agaagacggc cgagcccgca ccagccagcc 300
agaagaaggg gaaggagatg cctccagcca gagcatactg atcgctgtgg ctcacctctc 360
ggccaaagag cacaaagctg gactccaaag tgcgcagata gagaatgtaa caggcgccga 420
aaaagaccag ccagagccac cagnacata ggggacgtca ccacacagta caggatgagg 480
cccaggaaca cgaacacata gttgctctgg tagtactcca cgttgcgtac gaggcgctgg 540
cacagctctc ccagggttgc gggccgtgag aagcgtctgt ggtccacgaa ggtgctccag 600
gggcccggatg gtcgcccgcg gccgctccag ccactcccgg cctgcccagg gaggaaatcag 660
cttcggcagc aaggtctgtg cggtcagccc ttccgcctcg gcattcttcc t 711

```

```

<210> 141
<211> 468
<212> DNA
<213> Homo sapiens

```

```

<400> 141
actcgagtc cttctctctt ggctctttt gaggctcatc caaaatagag gaagcatgcg 60
aaatctacgc cagagcagca aacatgttca aaatggccaa aaactggagt gctgctggaa 120
acgcgttctg ccagggtgca cagctgcacc tcagctcca gagcaagcac gacgcagcca 180
cctgctttgt ggacgctggc aacgcattca agaaagccga cccccaagag gccatttaact 240
gtttgatgag agcaatcgag atctacacag acatggggcg attcaccgatt gcggccaagc 300
accacatctc cttgtctgag atctatgaga cagagtgtgt ggacatcgag aagggcattg 360
cccactacga gcagctctga gactactaca aaggcgagga gtcccaacag tcagccaaca 420
agtgctgct gaaggtggct ggttacgctg cgctgctgga gcagtatc 468

```

```

<210> 142
<211> 203
<212> DNA
<213> Homo sapiens

```

```

<400> 142

```

```
cgcaaaagtga agaactcgca gtctcttcttc tctggcctct ttggaggctc atccaaaata 60
gaggaagcat gcgaaatcta cgccagagca gcaaacatgt tcaaaatggc caaaaactgg 120
agtgtctgtg gaaacgcgtt ctgccaggct gcacagctgc acctgcagct ccagagcaag 180
cacgacgcag ccactgtctt tgt                                     203
```

```
<210> 143
<211> 212
<212> DNA
<213> Homo sapiens
```

```
<400> 143
tctgcgggga acagaacatg atcggcatga cggccacggt catcgctgag cattacctgg 60
ctgaaacgga gcagcgggag aagttcgggc taaagaagcg ggagggggcc tgggagctca 120
tgaagaaggg gtacaccacg caactggcct tcatacaacc cagctctgcc ttgcggcct 180
tcgtgaaacg ggcaccacgc acctggctga cc                                     212
```

```
<210> 144
<211> 226
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 109, 128, 153, 161, 167, 174, 175, 178, 196, 202, 206, 211,
213
<223> n = A,T,C or G
```

```
<400> 144
gaagcacctc attgtgaccc cctcgggctg cggggaacag aacatgatcg gcatgacgcc 60
cacggctatc gctgtgcatt acctggatga aacggagcag tgggagaant tcggcctaga 120
gaagcggcnag ggggccttgg agctcatcaa ganggggtac ncccagnagc tggnnittag 180
acaaccacgc tctgcntttg cnggcnttgc nanaaagggc ccccac                                     226
```

```
<210> 145
<211> 97
<212> DNA
<213> Homo sapiens
```

```
<400> 145
ctgggctgcg gctgatgcgc atccgttttc ctgccctggg catgtgtctc tgaaacctga 60
tggcggggcg tgggcaacgg gcactgctaa gggaggcc                                     97
```

```
<210> 146
<211> 120
<212> DNA
<213> Homo sapiens
```

```
<400> 146
ggcacgagct catctgtttg cggatcagaa cccgagctgt gcttgtggct gcggctgcta 60
actggctgcg cacaggggagc tgtaaccatg cctcactcgt acccagccct ttctgctgag 120
```

```
<210> 147
<211> 273
<212> DNA
<213> Homo sapiens
```



```

<400> 147
ggcgcgcctt tttttttttt ttttttttcc cccctttttt ttgggtgggg ggtttttcca 60
aggggttgaa tgggggtttt ttttcccccc ttttacccca gaaaaagggg gaggaaaaaa 120
ggaacccccg gggaaaattt tccctttttt ggaaaatttg ggggacccca aaaagggggg 180
gggaaccccc cccctttttt ttttctttta aaaaattttt ttgcccccaa aaaagggggg 240
gcccccttcc ccccccttct tgggcccccg ggg
273

<210> 148
<211> 90
<212> DNA
<213> Homo sapiens

<400> 148
cacttcacgc aaggcacatg tgctgtcctg caggctcgca gggaaccgac ccagagagcc 60
cagcggcagg cctcggaaca cccgcctctg
90

<210> 149
<211> 463
<212> DNA
<213> Homo sapiens

<400> 149
gaactgtccg ggaatccggt gcttcggatc tactacaact cgaggcctgc tctgttcacc 60
ttgtgtgctg ggaatgagct cttctactgc ctctctaccc tgttccattt ctctgagggg 120
cctttagttg gctctgtggg actgttccgg atgggcctct gggtcactgc ccccatcgcc 180
ttgtcgaagt cgctcatcag cgtcatccac ctgatcacgg ccgcccgcaa catggctgcc 240
ctggacgcag cagaccgcgc caagaagaag tgacgctgga gccccgggtc ctggctgccc 300
acctgccctg ggagtccttg ttgtgccacac agctccccac cccctgctag gaggtccag 360
tctcacgcct tctcatgtg ttgttctacc tgcctgggat ggggtcagcc tctctttggt 420
gacgtcacgt tctctgggat cctgaggacc cgggcctcaa atc
463

<210> 150
<211> 693
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 285, 455, 597, 606, 636, 667, 686
<223> n = A,T,C or G

<400> 150
ggcacgagga gagagagagt cacaagatga tcgaactgtt cggaatccgc gtgcttcgga 60
tctactaac ctcgaggcct gctctgttca cctgtgtgct tgggaatgag ctcttctact 120
gcctcctcta cctgttccat ttctctgagg gacctttagt tggctctgtg ggactgttcc 180
ggatgggcct ctgggtcact gcccccatcg ccttctgtaa gtcgctatc agcgtatcc 240
acctgatcac ggcgcgccgc aacatggctg ccttggaagc agcanaccgc gccaaagaaga 300
agtgaagctg gagccccggg tcttggtgc cactgcctt gggagcttg cttgtgccaca 360
cagctcccca cccctgtcta ggaggtccca gtctcagccc ttctctatgt gttgttctac 420
ctgctgggat gggggtcagc ctctctttgg tgaactcagc ttcttctggg atcctgagga 480
ccgggcctca aatcagggag gataccgggg agggccctt catccaagcg gtgctcttgg 540
ggtgccggga ccgggcagtg tcacaccctg cctgctagtc ctgggttcca gatctangga 600
ccttantgaa ggagtgggtg gaggcagttc tgaagnggat aactgcacca caacaagttg 660
ggacatncag aggaactcca actctnacgt ctt
693

<210> 151
<211> 300

```

```

<212> DNA
<213> Homo sapiens

<400> 151
gagagagaga gtcacaagat gatcgacttg tccgggaatc cgggtgcttc gatctactac 60
acctcgagggc ctgctctgtt caccttgtgt gctgggaatg agctcttcta ctgcctcctc 120
taacctgttcc atttctctga gggaccttta gttggctctg tgggactgtt ccggatgggc 180
ctctgggtca ctgcccccat cgccttctgt aagtcgtcta tcagcgtcat ccacctgac 240
acggccgccc gcaacatggc tgccttggac gcagcagacc gcgccaaaga gaagtgaagg 300

<210> 152
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 37, 41
<223> n = A,T,C or G

<400> 152
gaactgtccg ggaatccggt gcttcggatc tactacnctc ngaggcctgc tctgttcacc 60
ttgtgtgctg ggaatgagct cttctactgc ctcctctacc tgttccattt ctctgagggg 120
cctttagtgt gctctgtggg actgttccgg atgggcctct gggtcactgc ccccatcgcc 180
ttgctgaagt cgctcatccg cgtcatccac ctgatcacgg ccgcccgcaa catggctgcc 240
ctggacgcag cagaccgcgc caagaagaag tgacgctgga gccccgggtc ctgggtgccc 300

<210> 153
<211> 239
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 168, 190, 203, 229
<223> n = A,T,C or G

<400> 153
gttgccctgc ctctggctcc agaacagaaa gggagcctca cgtcggctca cacaaaacag 60
ctgacactga ctaaggaact gcagcatttg cacaggggag ggggggtgct ccttcctaga 120
ggccctgggg gccaggctga ttggggggca gattgacata gcccccantc atcagatgct 180
tgaaattcan cacgggggta acntgggggg ttagggacta tttttaant agggtggc 239

<210> 154
<211> 113
<212> DNA
<213> Homo sapiens

<400> 154
gacacatttg ttacttctgt agcaagcccg gaggtcggga gccctctgcc gtgttcacag 60
gtgacacctt gtttgtggct ggtgcgggga agttctatga agggactcgg gat 113

<210> 155
<211> 294
<212> DNA

```

<213> Homo sapiens

<400> 155  
tttttttttt tttttttttt ttttggcggg aataaatact tgttaaactt ctcttataaa 60  
tatgcattaa aacgtccgat aacacaagcc aagggtctgta aaattaaggt taaatcaaga 120  
ctgaatttcc cgcacggacc agcaggaaag ccagttacct aaaagagctt aatccccaaa 180  
tccgtgaag gtgcaggggc gctcagtc ccggggcatct tgaactggtc ctctccctg 240  
cgcacggccc gcattgtgtt caccgggtcc gtctcacctg cgtgtgtctg cacc 294

<210> 156

<211> 419

<212> DNA

<213> Homo sapiens

<400> 156  
tagccatggc aggcagagctc ctggaccagg tctcataatg catgtggcac ttaggtccaa 60  
gctctccaga gggtgaaagc tggagtctgt caatgtccta ctgagacagc acagccaacc 120  
tagctagcaa catttgtttt agtctgaaca atatatactt atagaattca gtcaaagata 180  
cacaactctga aacagcttca tgggggtggac tctaacagta gttgcaatgt tttagaatga 240  
gacttacctc tctgtctatct agatctgaac tccctggctt ctttacttag ttcaagcccc 300  
agcctaggaa agccagttac ataaaagtgt gctcaggagt cttagagctt tacctaaata 360  
gagcccagaa aacggaggat ggggggtggg gcgcttctg gaggtgacac ttgatgggg 419

<210> 157

<211> 357

<212> DNA

<213> Homo sapiens

<400> 157  
cgtatttctg tcaagccgtg agctagccat ggcaggacag ctctctggacc aggtctcata 60  
atgcattgtg caacttaggtc caagctctcc agaggggtgaa agctggagtc tgtcaatgtc 120  
ctactagagc agcacagcca acctagctag caacatttct tttagctcga acaatatata 180  
cttatagaat tcaagtcaaa atacacaatc tgaacacagc tcatgggggt gactctaaca 240  
gtagtgtcaa tgttttagaa tgagaccttac tctctctgct tctagatctg aactccttgg 300  
cttctttact tagttcaagc cccagcctag gaaagccagt tacataaaa ttggctc 357

<210> 158

<211> 408

<212> DNA

<213> Homo sapiens

<400> 158  
actttgtatc actgcagcgc ttcacacott catcctgaag atatctggaa cattcgtagt 60  
attctgcagc ccaccaatat ccaatgcaag aacggcaaga tgaactgcca tgagggtgta 120  
gtgaaggta cagattgcag ggacacagga agttccaggg caccacaactg cagatatcgg 180  
gccatagcga gcaactagac tgttgtcaat gcctgtgagg gtaaccacca ggtgcctgtg 240  
cactttgacg gttatagatgcc accatgtagg gattatcgcg agtggtgtgac cttaacttta 300  
ctccttaaat agcagtgaat aatgcatttg agctgcccga ggctctgtct cctcagctca 360  
tttcttactc tttttctcta tataactcat tctattaaat acattgca 408

<210> 159

<211> 550

<212> DNA

<213> Homo sapiens

<400> 159  
acaaggacgc caaccccc tagatgcaaa gcaggattca aaagaacatc tttagcgttt 60

ctaccggctc	cccattcatcg	tactagggag	gaagaagcgg	gtgagaaaa	aaactttctt	120
ccattgtcct	gcccttttct	gcggactttg	tctgaggccg	aggcaccctt	aagatactga	180
tggctctgca	gaggacccat	tcattgtctc	tgccttttct	gctgaccctg	ctggggctgg	240
ggctgggtca	gccctctcat	ggccaggatg	gcattgtacca	gcgattcctg	cggaacacg	300
tgcacctgca	ggagacaggt	ggcagtgtac	gctactgcac	cttgatgatg	caaaacgga	360
agatgacttt	gtctactcgc	aagcgttcca	acaccttcat	ccatgaagat	atctggaaca	420
tctgtagtat	ctgcagccac	accaatatcc	aatgcaagaa	cggaacagat	aactgcocat	480
agggtgtagt	gaaggtcaca	gattgcaggg	acacaggaag	ttccaggcca	cccaactgca	540
gatatcgggc						550

<210> 160  
 <211> 554  
 <212> DNA  
 <213> Homo sapiens

<400> 160						
ccaacccac	ctagatgcaa	agcaggattc	aaaagaacat	cttgcgcttt	tctaccggct	60
ccccatcatc	gtactagggg	ggaagaagcg	gggtgagaaac	aaaacttctt	tccattgtcc	120
tgcctgtttc	tgcggacttg	tcttgaggcc	gaggcacctc	taagatactg	atggctctgc	180
agagggacca	ttoattgtct	ctgccttttc	tgcgtacctc	gctggggctg	gggctggctc	240
agccctccta	tggccaggat	ggcatgtacc	agcgattcct	gcggcaaacac	gtgcacctgc	300
aggagacagg	tggcagtgat	cgctactgca	acttgatgat	gcaaaagcgg	aagatgacct	360
tgtatcatcg	caagcgcttc	aacaccttca	tccatgaaga	tatctggaac	attcgtagta	420
tctgcagcac	cacccaatct	caatgcaaga	acggcaagat	gaactgccat	gaggggtgtg	480
tgaaggtcac	agattgcagg	gacacaggaa	gttccagggc	acccaactgc	agatatcggt	540
ccatagcgag	cact					554

<210> 161  
 <211> 313  
 <212> DNA  
 <213> Homo sapiens

<400> 161						
aattacatct	totttaaagc	caaatgggag	atgccctttg	accccccaaga	tactcatcag	60
tcaaggggcg	tacttgagca	ggaaaaagtg	ggtaattggtg	cccatgatga	gtttgcatca	120
cctgactata	ccttacttcc	gggacgagga	gctgtcctgc	accgtgggtg	agctgaagta	180
cacaggcaat	gccagcgac	tcttcatcct	ccctgatcaa	gacaagatgg	aggaagtgga	240
agccatgctg	ctcccagaga	ccctgaagcg	gtggagagac	tctctggagt	tcagagagat	300
aggtgagctc	tac					313

<210> 162  
 <211> 519  
 <212> DNA  
 <213> Homo sapiens

<400> 162						
cgcccgccct	tttttttttt	tttgcccccc	cggggcccccc	ttatttttaa	aacccccccc	60
cccctggggg	ggggggcccc	gaccttttaa	gttttttttt	ttcccccccg	gggaaaaaaa	120
ggggggaaaa	aaaaaaaaaa	ttcccccccc	ttttttcccc	ccccaaaaaa	ggggggggacc	180
cccggggggg	gggggggttt	cccggggggg	gaaaaaaaaa	acccccgggg	gcccccccc	240
aatttttttc	ccccccccct	tggggggggg	gggggggggg	gggggggggg	ggggggcccc	300
cccccccccc	ccccccccat	tttggggggg	tgggttgggg	gaaatttttt	tttaaaaaaa	360
aaaaaaaaaa	tttggggggt	cccccccccc	cttttttttc	cccccttttt	ttccaaaagg	420
ggaccccccc	cccccccccc	caaaaaaac	cccccccccc	ccccaaaaaa	aacccccccc	480
cgggggggga	aaaaaaaaag	gggggggggg	ggcccccccc			519

<210> 163

```

<211> 422
<212> DNA
<213> Homo sapiens

<400> 163
aactaaaaac tacagtggaa gaaaggaagt cttcagaagc ctcccccaat gcgcaaaagaa 60
gtaaaagatac cagtaagga tgcataaaacg ctgccccaga ttctccgtcc aaacagcttc 120
cagaccagat ttcatctctc agtggaatc catcagttga aatagttcat ggtattatgc 180
acctatataa gacaaataag atgacctctc taaaagaaga tgtgcgggcg agtgccatgc 240
tgtgtattct cacagtcctc gctgcaatga ccagtcatga ccttatgaag tttgttgccc 300
catttaacga agtaattgaa caaatgaaaa ttatcagaga ctctactccc aaccaatata 360
tggtgctgat aaagtttcgt gcacaggctg atgcggtatg tttttatatg acatgcaatg 420
gc 422

<210> 164
<211> 626
<212> DNA
<213> Homo sapiens

<400> 164
tacggcgggg tgcgagctct gcgggaagcg gttcctggat agtttgcggc tgagaatgca 60
cttactggct cattcagcgg gtgccaagcg ctttgtctgt gatcagtgcg gtgcacagtt 120
ttcgaaggag gatgcccgtg agacacacag gcagaccocat actggcactg acatggcgt 180
cttctgtctg ctgtgtggga agcgcatcca ggcgagagc gcactgcagc agcacatgga 240
gggtccacgg ggcgtgcgca gctacatctg cagtgtgtgc aaccgcacct tccccagcca 300
cacggctctc aaacgcgccc tgcgctcaca tacaggcgac caccctacg agtgtgagtt 360
ctgtggcagc tggttccggg atgagagcac actcaagagc cacaacgcca tccacacggg 420
tgagaaaccc tacgagtgca atggctgtgg caagaagttc agcctcaagc atcagctgga 480
gacgcactat aggggtgcaca cagggtgagaa gccctttgag tgtaggctct gccaccagcg 540
ctcccgggag tactcgggca tgatcagaac cctgagaagc cacaacggcg cctcgcccta 600
ccagtgcacc atctgcacag agtact 626

<210> 165
<211> 515
<212> DNA
<213> Homo sapiens

<400> 165
gatagtttgc ggtgagaat gcacttaact gctcattcag cgggtgccaa agcctttgtc 60
tgtgatcagt gcggtgcaca gttttcgaag gaggatgccc tggagacaca caggcagacc 120
catactggca ctgacatggc cgtcttctgt ctgctgtgtg ggaagcgcat ccaggcgagc 180
agcgcactgc agcagcacat ggaggtccac gcgggcgctg gcagctacat ctgcagtgag 240
tgcaaacgca ccttccccag ccacacggct ctcaaacgcc acctgcgctc acatacagcg 300
gaccacccct acgagtgta gttctgtggc agctgcttcc gggatgagag cacactcaag 360
agccacaaac gcattccacac ggggtgagaaa cctacagagt gcaatggctg tggcaagaag 420
ttcagcctca agcatcagct ggagacgcac tatagggtgc acacaggtga gaagcccttt 480
gagtgtaggc tctgccacca gcgtcccgcg gacta 515

<210> 166
<211> 615
<212> DNA
<213> Homo sapiens

<400> 166
actgttcaag gtttattggg ggttttagtt ggtataaac ttggatagtt ggttgcatgg 60
tttgtatgta gatcttttta catttatatg taatgtacac tactgatata gttcacaaaa 120
taagatcctt tggagaatt atgcacaaga catgatattg gatttatata ctggtatcca 180

```

```

ggatgtgact cactgggaaa aaatgttga ctaggcatgt tcagtgaagg agccaggaag 240
ttatataaca cacggtaaac atccacctgg ctcaaggggc aaatgcagta cgtacagcat 300
tggcagtggt gcgtcagagg tggcagaact atttcacact aaccagttga agactacaca 360
agattaatac catccagcat caggatatag ctgtggattt tacaaacct tcttatttct 420
aacttcagga gttgatgttt ttcccagtc atcttataat attactgctt taatcacaga 480
tcagataaaa aggacaacat gcacaacctc cacctagaat cctgtgttag cctagacagt 540
gaaatgatat gacatcagaa gactttaaaa ttgcagctcc ttttggatcc cccaaagtgt 600
atctgcactc ttcttt 615

```

```

<210> 167
<211> 99
<212> DNA
<213> Homo sapiens

```

```

<400> 167
tttttttttt ccactgttca aggtttattg ggggttttag ttggtataac acttggatag 60
tgggttgcac tggtttgatg taaatcttt tacattata 99

```

```

<210> 168
<211> 612
<212> DNA
<213> Homo sapiens

```

```

<400> 168
tacggccggg acatgaagga gctaggagtg ggaatagctt tgcgaaaaat gggcgcaatg 60
gccaaagccag attgtatcat cacttgtgat ggtaaaaaac tcaccataaa aactgagagc 120
actttgaaaa caacacagtt ttcttgtacc ctgggagaga agtttgaaga aaccacagct 180
gatggcagaa aaactcagac tgtctgcaac ttacagatg gtgcattggt tcagcatcag 240
gagtggtgat ggaaggaaa cacaataaca agaaaattga aagatgggaa attagtgggt 300
gagtggtgca tgaacaatgt cactgttact cggatctatg aaaaagtaga ataaaaattc 360
catcatcact ttggacagga gtttaattaa agaattgcca agctcagttc aatgagcaaa 420
tctccatact gtttctttct ttttttttca ttaactgtgt caattatctt tatcataaac 480
attttacatg cagctatttc aaagtgtgct ggattaatta ggatocctcc tttggttaat 540
aaataaatgg gtttgtgcta atatattctg tatgcattct ttaaacctta caggaaatta 600
gtgatgagtt tt 612

```

```

<210> 169
<211> 410
<212> DNA
<213> Homo sapiens

```

```

<400> 169
gaaaacaaac cagttttctt gtacctggg agagaagttt gaagaaacca cagctgatgg 60
cagaaaaact cagactgtct gcaactttac agatggtgca ttggttcagc atcaggagtg 120
ggatggggaag gaaagcacia taacaagaaa attgaaagat gggaaattag tgggtgagtg 180
tgtcatgaac aatgtcacct gtactcggat ctatgaaaaa gtagaataaa aattccatca 240
tcactttgga caggagttaa ttaagagaat gtccaagctc agttcaatga gcaaatctcc 300
atactgtttc ttctcttttt ttctattact gtgttcaatt atctttatca taaacatttt 360
acatgcagct atttcaaagt gtgctggatt aattaggatc atcccttttg 410

```

```

<210> 170
<211> 310
<212> DNA
<213> Homo sapiens

```

```

<400> 170
gctcggaat tcgctcgagt gctgctcccc acccatggac aggagatcct ggggtgggcc 60

```

```

tccctctgat gaccccagcc agatgagcga gtggggctca gctgggccc tgggtgctgt 120
cactcagcat tcccatgcct gatgtttacc aagtgcgtgt ttggacactg gctttctcca 180
aacaggattt gcctcctcca cgctccctac acacctgaga tgtaaactgg cagtcagctgt 240
tcactcagga cctaggatta gaaaatggca gaggttggtgc tggatccacc ttgcactctct 300
atcaagccct 310

```

```

<210> 171
<211> 257
<212> DNA
<213> Homo sapiens

```

```

<400> 171
tgetgtctccc cagcccatgg acaggagatc ctgggttggg cctccctctg atgaccccag 60
ccagatgagc gagtggggct cagcgtggcc catggtgctt gtcactcagc attcccatgc 120
ctgatgttta ccaagtgcgt tgttggacac tgactttctc caaacaggat ttgcctcctc 180
cacgctccct acacccctga gatgtaaaact ggacgtcagt gttcactcag gacctaggat 240
tagaaaatgg cagagtt 257

```

```

<210> 172
<211> 593
<212> DNA
<213> Homo sapiens

```

```

<400> 172
tgaagaacgg tgcactttac gaagccaaaa tcaaggatgt ggatgagaaa gcagacatcg 60
cactcatcaa aattgaccac cagggcaagc tgcctgtcct gctgctgggc cgctcctcag 120
agctgcggccc gggagagtgc gtggtcgcca tcggaagccc gttttccctt caaaaacacag 180
tcaccacccg gatcgttgagc accacccagc gagggcgcaa agagctgggg ctccgcaact 240
cagacatgga ctacatccag accgacgcca tcatcaacta tggaaaactg ggaggccctg 300
tagtaaacct ggacggtgaa gtgattggaa ttaacacttt gaaagtgaca gctggaatct 360
cctttgcaat cccatctgat aagattaaaa agttcctcac ggagtcctat gaccgacagc 420
ccaaaggaaa agccatcacc aagaagaagt atattggtat ccgaatgatg tcactcacgt 480
ccagcaaaagc caaagagctg aaggacccgc accgggaact ccagacgtg atctcaggag 540
cgtatataat tgaagtaatt cctgataccc cagcagaagc tgggtggtctc aag 593

```

```

<210> 173
<211> 304
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 106, 113, 125, 137
<223> n = A,T,C or G

```

```

<400> 173
gggtcaaaagt tgagctgaag aacggtgccca cttacgaagc caaaaatcag gatgtggatg 60
agaaaagcaga catcgactc atcaaaattg accaccaggg caagcngcct gtncgtgtgc 120
ttgngcgtct ctcagantgc cggccgggag agttcgtggt cgccatcgga agcccgtttt 180
cccttcaaaa cacagtcacc accgggatcg tgagcaccac ccagcgaggc ggcaaaagagc 240
tggggctccg caactcagac atggactaca tccagaccga cgccatcatc aactatggaa 300
actc 304

```

```

<210> 174
<211> 258
<212> DNA
<213> Homo sapiens

```

```

<400> 174
ggtcagaaga gttgtgcacg cagattagca ggccaaggctc tgagccacag cagcattttt 60
atttcagatt ttgataactg tttatatgtg ttgaaaacca aaatgacatc tttttaaaagc 120
ttatccataa aaaaaaatag atgtctttta tagtggaataa acacatgggg aaaaaaatca 180
tctattttga tgcagcattt gataatgata aaacacctca cacctcactc tttatagtgc 240
acaaaatgaa tgagggtct 258

```

```

<210> 175
<211> 442
<212> DNA
<213> Homo sapiens

```

```

<400> 175
aagtagccgc tccgagtgga ggcgactggg ggctgaagag cgcgcgcgcc tctcgtccca 60
ctttccagggt gtgtgatcct gtaaaattaa atcttccaag atgatctggt atataattaat 120
tataggaaatt ctgcttcccc agtctttggc tcatccaggc ttttttactt caattgggtca 180
gatgactgat ttgatccata ctgagaaaga tctgggtgact tctctgaaag attatatttaa 240
ggcagaagag gacaagtttag aacaaataaa aaaaaggggc gagaaagttag atcggctaac 300
tagtacagcg acaaaagatc cagaaggatt tgttgggcat ccagtaaatg cattcaaat 360
aatgaaacgt ctgaattact agtggagtga gttggagaat ctggctccta agggatgtgc 420
agatggcttt atctctaacc ta 442

```

```

<210> 176
<211> 611
<212> DNA
<213> Homo sapiens

```

```

<400> 176
gggctgaggt aggaagtagc cgctccgagt ggaggcgact gggggctgaa gagcgcgcgc 60
ccctctcgtc ccactttcca ggtgtgtgat cctgtaaaaa taaattcttc aagatgatct 120
gggtatatatt aattatagga attctgcttc ccagtccttt ggctcatcca ggctttttta 180
cttcaattgg toagatgact gatttgatcc atactgagaa agatctgggt aottctctga 240
aagattatat taaggcagaa gaggacaagt tagaacaata aaaaaaatgg gcagagaagt 300
tagatcggtc aactagtaca gcgacaaaag atccagaagg atttgttggg catccagtaa 360
atgcattcaa attaatgaaa cgtctgaata ctgagtggag tgagtggag aatctgggtcc 420
ttaagggtat gtcagatggc tttatctcta acctaaccat tcagagacag tacttttcta 480
atgatgaaga tcagggttgg gcagccaaag ctctgttacg tctccaggat acctacaatt 540
tggtatcaga taccatctca aagggttaac ttccaggagt gaaacacaaa tcttttctac 600
ggctgaggac t 611

```

```

<210> 177
<211> 416
<212> DNA
<213> Homo sapiens

```

```

<400> 177
ttacaaactc ctgaaccata atattctcgt ctccacagac acataactca taatttaaaa 60
ccaaatgctt gtgagaagcg ttgctcatca tacttctgct ttcacaaaga gactctgaat 120
agtttctgtg tgcattatcc agaactttta aaagaacttc tgtttcatgc agttgaccgt 180
agtcctctac ttctctctgt acgcctttta aaatctttgt aaaagtgcct tggccaaggg 240
tttctattaa tatcaaatct tcattttotga ttttgtgaaa caccatttgg ttcatatgag 300
taggcctctg taatgttggg gaggttggta catcagaaac accattcgtt ctgaagacta 360
gaagggttga tttatctttt cggctttggg ggacagcatt tagtacacgg gaaaaat 416

```

```

<210> 178
<211> 163

```



<212> DNA  
 <213> Homo sapiens

<400> 178  
 ggggtttttt tttttgcaaa gttccaaatt tatgggtcgg gaaataaatc caaattttctc 60  
 attaaaaaac tcctttggaa aaacttgggc ccaaaagttt cccatccgaa ctcagccttt 120  
 tttgccccga tcccgcgact ttttaactcaa ggcgggggaa ggc 163

<210> 179  
 <211> 285  
 <212> DNA  
 <213> Homo sapiens

<400> 179  
 aaagttacaa atttatttgt ctggaaataa atacaaatat ctcatthaaga aactcctctg 60  
 gaaagacttg tgcacaatag tttcccatcc gtactcagcc tctcttgccc cgatccccga 120  
 cttttctact caaggccagg gaaaggcctc caaggtgatg ggccggcagg aacgagtcac 180  
 tgccctcac gccacctgga aggctggact acttcctcct cccaactcgc ggggtcccaga 240  
 aatcctcggg tcccagtggc tgacttacaa tattcaattc actct 285

<210> 180  
 <211> 458  
 <212> DNA  
 <213> Homo sapiens

<400> 180  
 tcgagccgcc gccgcccttg tacaacaaca acaacaactg cgaggaaaat gaggcagtcctc 60  
 tgcccccgcc ggcgggcctc aacagttcct ggggtggagct acccatgaac agcagcaatg 120  
 gcaatgataa tggcaatggg aaaaatgggg ggttggaaca cgtaccatcc tcatcctcca 180  
 tccacaatgg agacatggag aagattcctt tggatgcaca acatgaatca ggacagagta 240  
 gttccagagg cagttctcac tgtgacagcc cttcgccaca agaagatggg cagatcatgt 300  
 ttgatgtgga aatgcacacc agcaggggacc atagctctca gtcagaaaga gaagtgttag 360  
 aaggagagaa ggaagtgcag gctttgaaga aaagtgcgga ctgggtatca gactgggtcca 420  
 gttagaccga aaacattcca cccaaggagt tccacttc 458

<210> 181  
 <211> 329  
 <212> DNA  
 <213> Homo sapiens

<400> 181  
 tttttttttt tttttttttt tttcttttta ataactatca actcaaaactt agggaaaactt 60  
 gcctttgtct tgggggaaaa aaacaactag acaataaagc tctctttaca tcatttgcta 120  
 acctgatctc gtttttaagag agagatggta gttatgttgc aagagtaaaa ttatataccat 180  
 gaatgataca ggtctagtct ggtggcacta attagagata atagcattgc tgacaaaatt 240  
 ataactctgc ggtggcattt gcggaaaaa ggccttgca aatttctaaa caacagtaaa 300  
 ctctgttagg aaattctaaa atgtcttca 329

<210> 182  
 <211> 527  
 <212> DNA  
 <213> Homo sapiens

<400> 182  
 atacatgtaa cttcattatt ttaaaaaat ttttagaact ccaatactca cctgttatg 60  
 tcttgctagt ttaaattttg ctaattaact gaacatgct taccagattc acactgttcc 120  
 agtgtctata aaagaacac tttgaagtct ataaaaata aaataattat aatgtcatt 180

```

gtacatagca tgttttatc tgcaaaaaac ctaatatgcta attaatctgg aatatgcaac 240
attgtcctta attgatgcaa ataacacaaa tgctgcaaaag aaatctacta tatcccttaa 300
tgaataacat cattcttcat atatttctcc ttcagtcocat tcctttaggc aatttttaaa 360
ttttaaaaat tattatcagg ggagaaaaat tggcaacgct attatatgta agggaaatat 420
atacaaaaag aaaattaatc atagtcaact gactaagaaa ttctgactgc tagttgccat 480
aaataactca atggaaatat tectatggga taatgtattt taagtga 527

```

```

<210> 183
<211> 530
<212> DNA
<213> Homo sapiens

```

```

<400> 183
atacatatat gtaacttcat ttttttaaaa atatttttag aactccaata ctaccctgt 60
tatgtcttgc taatttaaa tttgctaatt aactgaaaca tgcttaccag attcacactg 120
ttccagtgct tataaaagaa acactttgaa gtctataaaa aataaaaata ttataaatat 180
cattgtacat agcatgttta tatctgcaaa aaacctataa gctaaataat ctggaatatg 240
caacattgtc cttaattgat gcaaaataca caaatgctca aagaaatcta ctatatccct 300
taatgaaata catcattctt catatatctc tccctcagtc cattccctta ggcaattttt 360
aatttttaaa aattattatc agggggagaaa aattggcaca actattatat gtaagggaaa 420
tatatacaaa aagaaaatta atcatagtca cctgactaag aaattctgtc tgctagtgtc 480
cataaataac tcaatggaaa tattcctatg ggataatgta ttttaagtga 530

```

```

<210> 184
<211> 253
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 98, 141, 162, 213
<223> n = A,T,C or G

```

```

<400> 184
tatacatata tgaacttca ttttttaaaa aatattttta gaactccaat actcaccctg 60
ttatgtcttg ctaatttaaa ttttgctaatt taactganac atgcttatcca gattcacact 120
gttccagtgct ctataaaaga nacactttga agtctataaa anataaaata attataaata 180
tcattgtaca tagcatgttt atatctgcaa aanacctaat agctaattaa tctggaatat 240
gcaacattgt cct 253

```

```

<210> 185
<211> 421
<212> DNA
<213> Homo sapiens

```

```

<400> 185
ccgttgctgt cgatcccagc tccctgggag gctgaggcgg gagaattgcg ggaagggcgg 60
gacggagggt gcagtgagcc gagatcgcac tgctgtaccc agcctgggcc acagtgcagg 120
actccatctc aaaaaaaaaa gaaaagaaaa agcctgttta atgcacaggt gtgagtggtg 180
tgcttatggc tatgagatag gttgatctcg cccctacccc ggggtctggt gtatgctgtg 240
ctttcctcag cagtatggct ctgacatctc ttaaatgtcc caacttcagc tgttgggaga 300
tggtgatatt ttcaacccta ctctctaaac atctgtctgg ggtctcctta gtctggaatg 360
tcttatgtct aattatttgg tgttgagcct ctcttcacaa agagctcctc catgttttga 420
t 421

```

```

<210> 186
<211> 377

```

```

<212> DNA
<213> Homo sapiens

<400> 186
cagctcctctg ggaggctgag gcgggagaat tgcttgaacc cggggacgga ggttgccagt 60
agcccgagatc gcactgctgt acccagcctg ggccacagtg caagactcca tctcaaaaaa 120
aaaagaaaaag aaaaagcctg tttaatgcac aggtgtgagt ggattgctta tggctatgag 180
ataggttgat ctccgccctta ccccggggtc tgggtgtatgc tgtgctttcc tcagcagtat 240
ggctctgaca tctcttagat gtcccaactt cagctgttgg gagatgggtg tattttcaac 300
cctacttctc aaacatctgt ctgggggttc tttagctctg aatgtcttat gctcaattat 360
ttggtgttga gctctc 377

<210> 187
<211> 243
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 228
<223> n = A,T,C or G

<400> 187
gagggtattcc acctcctacc ggaatataat taaagggaga aatacactgt atgaagtata 60
tggtgatact atgacatggt gccacaacct tgagaagcat tatttgtttc taataaaagt 120
aatggcttgg tcaatatatt ggtgggttta aaactttgct gcttttttac ataaagcctg 180
tgcccttctc agaaaagttaa gatgtaaatg tattctcaca tgtaaatntg aaagttcagg 240
ggt 243

<210> 188
<211> 544
<212> DNA
<213> Homo sapiens

<400> 188
tattccacct cctaccggaa tataattaaa gggagaaata cactgtatga agtatatggt 60
gatactatga catgttgcca acaccttgag aagcattatt tgtttctaata aaaagtaagt 120
gctttgtcaa tatattgggt ggtttaaaac tttgctgctt ttttacataa agcctgtgcc 180
tttctagaaa agttaaagatg taaatgtatt ctacatgta aatttgaaaag ttcaggggtc 240
tattatgaaa tgatacacat ttttaaatga accataattt ttttactaaa gctgtttgcc 300
ttccaaagtg tttacacctt aagccttaac atgtatcttc attcagaaaa cagttatatt 360
gtcataccat agtaggaaga aaaaccttta tttggaatat acactactgt aagtttgtac 420
agatcatata cctaccacct gtctttgctt aaagagcctt gattacataa atatgtagga 480
aaaaacatat tgagttcaaa atttatatct aacattgttt atgttatgat ttttttttaa 540
ttgc 544

<210> 189
<211> 244
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 210
<223> n = A,T,C or G

<400> 189

```

```

cacaaaagggt atgatacagca acttgcttgg gaaaggagcc gtggaccagc tgacacggct 60
gggtgctgggt aatgccctct acttcaacgg ccagtggaaag actccctcc ccgactccag 120
caccacccgc cgcctcttcc acaaatacaga cggcagcact gtctctgtgc ccatgatggc 180
tcagaccaac aagtccaact atactgagtn caccacgccc gatggccatt atacgacatc 240
ctgg 244

```

```

<210> 190
<211> 209
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 140
<223> n = A,T,C or G

```

```

<400> 190
gaacactgtt gctcttgggt gacgggcccc gaggaattca gagttaaacc ttgagtgcct 60
gcgtctgtga gaattcagca tggaaatgtct ctactatttc ctgggatttc tgcctctggc 120
tgcaagattg ccacttgatn ccgccaacac atttcatgat gtgctgggca atgaaagacc 180
ttctgcttac atgagggagc acaatcaat 209

```

```

<210> 191
<211> 254
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 85, 100, 143, 155, 182, 203, 229, 245, 254
<223> n = A,T,C or G

```

```

<400> 191
ctcccaacca agctctcttg aggatcttga aggaaactga attcaaaaag atcaaagtc 60
tgggctccgg tgcgttcggc acgngtata agggactctn gatcccgaaa ggtgagaag 120
ttaaaattcc cgtcgctatc aangaattaa gagangcaac atctccgaaa gccacaagg 180
anattcctga tgaagcctac gtnatggcca gcgtggacaa cccccacng tgccgcctgc 240
tgggnatctg tctn 254

```

```

<210> 192
<211> 484
<212> DNA
<213> Homo sapiens

```

```

<400> 192
tttttttttt ttttttttcc aaatatacct ctttgaaaga taaatttctg ctcaaaggga 60
caatattctt gctggatgag ttctgtataa tgccttcacag ttgaagaca aaggaatgca 120
acttcccaaa atgtgccgga ggtggaagta ctctcgtgct agtcggtgta aacgttgcaa 180
aaccagctcg tgggtctaag agctaattgc ggcatggctg ttgggatgga ggacctgctg 240
tggttgggtc ctgggtatcg aaagagtctg gatttttagg gctcactact tctccgtgg 300
tcatactcca ataaattcac tgctttgtgg cgcgaccctt aggtattctg cattttcagc 360
tgtggagccc ttaagatgc catttggctt ggcttccctg ggaagaagt cctgcgtgta 420
gtcaggggtg tccaggctaa tttggtggct gcctttcttg gccagtgagg cagggtctgc 480
gaat 484

```

```

<210> 193
<211> 660

```

<212> DNA  
<213> Homo sapiens

<400> 193  
 ttttaatacata tccaggaggtt tgcaagaaac aggtgctttaa cactaattca cctcctgaac 60  
 aagaaaaatg ggcgtgtgacc ggaactgtgg gctcatcgct ggggctgtca ttggtgtgtg 120  
 cctggctgtg tttggaggta ttctaatagcc agttggagac ctgcttatcc agaagacaat 180  
 taaaaagcaa gttgtcctcg aagaaggtag aattgctttt aaaaattggg ttaaacacagg 240  
 cacagaagtt tacagacagt tttggatctt tgatgtgcaa aatccacagg aagtgtatgat 300  
 gaacagcagc aacattcaag ttaagcaaaag aggtccttat acgtacagag ttctgtttct 360  
 agccaaggaa aatgtaaacg aggaactgtg ggacaacaca gtctctttcc tgcagcccaa 420  
 tgggtgccatc ttogaacott cactatcagt tggaaacagag gctgacaact tcacagtctc 480  
 caatctggct gtggcagctg catcccatat ctatcaaaat caatttgttc aaatgatcct 540  
 caattcactt attaacaagt caaaatcttc tatgttccaa gtcagaactt tgagagaact 600  
 gttatggggc tatagggatc cattttttag tttggttccg taccctgtta ctaccacagt 660

<210> 194  
 <211> 277  
 <212> DNA  
 <213> Homo sapiens

<400> 194  
 ctttaatacat atccaggagt ttgcaagaaa cagggtgctta acactaatc accctcctgaa 60  
 caagaaaaat gggcgtgtgac cggaaactgtg ggcctcatcg tggggctgtc attgtgtgtg 120  
 tctctggctgt ttttggagggt attcctaagc cagttggaga cctgctttac cagaagacaa 180  
 ttaaaaagca agttgtcttc gaagaaggta caattgcttt taaaaattgg gttaaaaacag 240  
 gcacagaagt ttacagacag ttttggatct ttgatgt 277

<210> 195  
 <211> 457  
 <212> DNA  
 <213> Homo sapiens

<400> 195  
 gaactgggttt ggggtgcagac gttgtgtgctt gggcgcttct cegctgcgtg taggtgaagg 60  
 gggcttccgt accgagacat ggatttaggt gctattacaa aataactcagc attacacgcc 120  
 aagcccaagt gactgatcct tcaatacggg actgctggat ttcgaaacgaa ggcagaacat 180  
 cttgatcatg tcatgttttc catgggatta tttagctgtc tgagggtcaaa acagacaaaa 240  
 tccactatag gactcatggg aacacgctcc caaatccctg aggaagacaa tgggtgtaaa 300  
 ttggttgatc ctttgggtga aatgttggca ccatcctggg aggaacatgc caactgttta 360  
 gcaaatgctg aggaacaaga tatgcagaga gtgcttattg acatcagcga gaaagaagct 420  
 gtgaactcgc aacaagatgc cttttagatt attggta 457

<210> 196  
 <211> 361  
 <212> DNA  
 <213> Homo sapiens

<400> 196  
 tttttttttt tttttttttt tttgggcagg agaccatgtt actttattca tttgtttaac 60  
 ttttaacctg ttcaataaac ttttccactg tttgttagt tccacaaaag ccttagagag 120  
 tttctggtag taacctttta tagttgcctt tccatatcgg ccaccctgtt ttgcacaata 180  
 caccatgtag tgcagctggg gtgttgttaa caagccataa tcatggaatt gacctcctag 240  
 aacagtcaca ccatctatta cagattgtga aagtttctca ctgctggggc ttgtatctct 300  
 accaataact acaaaaggcat cttgttgtag attcacagct tctttctcgc tgatgtcaat 360  
 a 361

```

<210> 197
<211> 551
<212> DNA
<213> Homo sapiens

<400> 197
gagccgagct gatttgatcg aggagcgcgg ttaccggacg ggctgggtct atggtcgctc 60
cgcgggcgcg tccgcgggct ggtgcttttt tatcagggca agctgtgttc catggcaggg 120
aacttttggc agatctccca ctatttgcaa tggatttttg ataaacaaga totggtgaag 180
gagcgccaaa aggatttaaa gttctctoca gaggaagaat attggaagtt acaaatattt 240
tttacaaatg ttatccaagc attaggtgaa catcttaaat taagacaaca agttattgcc 300
actgctacgg tatatttcaa gagattotat gccagggtatt ctctgaaaag tatagatcct 360
gtattaatgg ctctacatcg tgtgtttttg gcattccaaag tagaggaatt tggagtattt 420
tcaaatacaa gattgattgc tgctgctact tctgtattaa aaactagatt ttcatatgcc 480
tttccaaaag aatttcccta taggatgaat catatattag aatgtgaatt ctatctgcta 540
gaactaatgg a                                     551

<210> 198
<211> 637
<212> DNA
<213> Homo sapiens

<400> 198
tacggcgagg agtcgagcgg agctgatttg atcgaggagc gcggttacgg gacgggctgg 60
gtctatggct gctccggcgg ccgctccgccc ggctgggtgct tttttatcag ggcaagctgt 120
gttccatggc agggaaacttt tggcagagct ccaactattt gcaatggatt ttggataaac 180
aagatctggt gaaggagcgc caaaaggatt taaagtttct ctcaaggaaa gaatatggga 240
agttacaaat attttttaca aatgttatcc aagcattagg tgaacatctt aaattaagac 300
aacaaagtta tgccactgct acggtatatt tcaagagatt ctatgccagg tatttctctga 360
aaagtataga tcoctgtatta atggctccta catgtgtgtt tttggcatcc aaagttagagg 420
aatttggagt agtttcaaat acaagattga ttgctgctgc tacttctgta ttaaaaaacta 480
gattttcata tgcttttcca aaggaatttc cttataggat gaatoatata ttagaatgtg 540
aattotatct gttagaacta atggatttgt gcttgatagt gtatcatcct tatagacott 600
tgctccagta tgtgcaggac atgggccaag aagacat                                     637

<210> 199
<211> 130
<212> DNA
<213> Homo sapiens

<400> 199
tagaaagcct ccacctggag tacaatgccc tcaaggtcct tcacaatggc accctggctg 60
agttgcaagg totaccocac attagggttt tcoctggacaa caatccctgg gtctcgact 120
gccacatggc                                     130

<210> 200
<211> 372
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 29, 100, 297, 298, 353, 357
<223> n = A,T,C or G

<400> 200

```

```
gtgctgtttg accaatggtc atgtggcna gattggggac ttggggctgg ctaggggacat 60
catgaatgac tccaactaca ttgtcaaggg caatgccgcn ctgcctgtga agtggatggc 120
cccagagagc atctttgact gtgtctacac gggttcagagc gacgtctggt cctatggcat 180
cctcctctgg gagatcttct cacttgggct gaatccctac cctggcatcc tggtagaacag 240
caagtctcat aaactgggtga aggatggata ccaaatggcc cagcctgcac ttgcccnnaa 300
gaatatatac agcatcatgc aggcctgctg ggcttgggag cccaccacca ganccanctt 360
ccagcagatc tg                                     372
```

```
<210> 201
<211> 478
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 3, 10, 11, 78, 112, 130, 150, 231, 457
<223> n = A,T,C or G
```

```
<400> 201
gancacctgn nacaaggagg atggacggcc cctggagctc cgggacctgc ttcactttctc 60
cagccaaagta gccacagnat ggcttctctc gcttccaaga attgcatcca cngggacgtg 120
gcagcgcgtn acgtgtgtgtt gaccaatggn catgtggcca agattgggga cttcgggctg 180
actagggaaca tcatgaatga ctccaactac attgtcaagg gcaatgccgc nctgcctgtg 240
ggtgggatgg ccccagagag catctttgac tgtgtctaca cgggttcagag cgaactgttg 300
tcctatggca tctctctctg ggagatcttc tcaactgggc tgaatcccta ccttggcatc 360
ctggtgaaca gcaagttcta taaactgggt gaaaggatgg ataccaaatg gccacgctg 420
cattttgccc ccaaagaata tatacaagca tccatgnagg cccttctggg ccttggag 478
```

```
<210> 202
<211> 218
<212> DNA
<213> Homo sapiens
```

```
<400> 202
gcgagcaagg ggatatcgcc cagcccttgc tgcagcccaa caactatcag tctgtctgag 60
gagtttgacga caggggagtac cactctcccc tcccacaaac ttcaactcct ccatggatgg 120
ggcgacacgg ggagaacata caaactctgc ctccggtcat ttcactcaac agctcggccc 180
agctctgaaa cttgggaagg tgagggattc aggggagg                                     218
```

```
<210> 203
<211> 556
<212> DNA
<213> Homo sapiens
```

```
<400> 203
taagctcgga attcggctcg aggcgagcaa ggggatatcg ccagccctt gctgcagccc 60
aacaactatc agttctgtcg aggagttgac gacagggagt accactctcc cctcccacaa 120
acttcaactc tcccatggat gggcgagacac ggggagaaca tacaaactct gccttcggtc 180
atttcaactc acagctcggc ccagctctga aacttgggaa ggtgagggat tcagggggag 240
tcagaggatc ccacttctgt agcatgggcc atcaactgca gtcaggggct gggggctgag 300
ccctcaccce cccctccctc actgtttctc tgggtgttgc ctgctgtttg ctatgccaac 360
tagtagaacc ttctttctca atccccttat cttoatggaa atggactgac ttatgccta 420
tgaagtcccc aggagctaca ctgatactga gaaaaccagg ctctttgggg ctagacagac 480
tggcagagag tgagatctcc ctctctgaga ggagcagcag atgctcacag accacactca 540
gctcaggccc cttgga                                     556
```

```
<210> 204
```

<211> 319  
 <212> DNA  
 <213> Homo sapiens

<400> 204  
 tccttatttta tttaacttca cccgagttcc tctgggttcc taagcagtta tgggtgatgac 60  
 tttagcgtcaa gacatttgct gaactcagca cattcgggac caatatatag tgggtacatc 120  
 aagtccatct gacaaaaatgg ggcagaagag aaaggactca gtgtgtgatc cgggtttcttt 180  
 ttgctcgccc ctgttttttg tagaatctct tcatgcttga catactacc agtattattc 240  
 ccgacgacac atatatatat gagaatatac ttattattatt ttgtgttagg tgtctgcctt 300  
 cacaatgtc atgtctact 319

<210> 205  
 <211> 456  
 <212> DNA  
 <213> Homo sapiens

<400> 205  
 attccgtttgc tgtcgagggc cactaccagt acaagagcat cccgtgtggg gacaaccaca 60  
 aggcagacat cagctcctcg ttcaacgagg ccattgactt catagactcc atcaagaatg 120  
 ctggagggaag ggtgttttgc cactgcoagg caggcatttc ccggtcagcc accatctgcc 180  
 tggcctacct tatgaggact aatcgagtca agctggagca gcccttttag ttgttgaagc 240  
 agagggcgaag catcatctct ccaacttca gttcatggg ccagctcgtg cagtttgagt 300  
 cccaggtgct ggctccgcac tgttcggcag aggctgggag ccccgccatg gctgtgctg 360  
 accgaggcac ctccaccacc accgtgttca acttcccctg ctccatccct gtccactcca 420  
 cgaacagtgc gctgagctac ctccagagcc ccatta 456

<210> 206  
 <211> 533  
 <212> DNA  
 <213> Homo sapiens

<400> 206  
 agttttttaa taatgaatat tatttaatac cacaacagaa ttatcccaa ttccaataa 60  
 gtcctatcat tgaaaattca aatataagtg aagaaaaaat tagtagatca acaatctaaa 120  
 caaatccctc ggttctaaga tacaatggat tcccatact ggaaggactc tgaggcttta 180  
 ttcccaccat atgcatactc tatcatttta ttattataca cacatccatc ctaactata 240  
 ctaaacccct tttcccatgc atggatggaa atggaagatt ttttttaac ttgtctaaa 300  
 agtcttaata tgggctgttg ccatgaaggc ttgcagaatt gagtccattt tctagctgcc 360  
 tttattcaca tagtggacgg ggtacctaaa agtaactggg ttgactcaga gactcgctgt 420  
 cattctgtca ttgtgctgac tctaacactg agcaacactc tcccagtggc agatccctg 480  
 tatcattcca agaggagcat tcatcccttt gctcctaata tcaggaatga tgc 533

<210> 207  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

<400> 207  
 aatgcactaa ctcaatacca agatgagttt ttaaataatg aatattattt aataaccaca 60  
 cagaattatc cccaatttcc aataagtcct atcattgaaa attcaaatat aagtgaagaa 120  
 aaaattagta gatcaacat ctcaacaaat cctcggtt taagatacaa tggattcccc 180  
 atactggaag gactctgagg ctttattccc ccactatgca tatcttatca ttttattatt 240  
 atacac 246

<210> 208  
 <211> 407



```

<212> DNA
<213> Homo sapiens

<400> 208
ggcgcgcctt tttttttttt tttttttttt ttttttttgg gcaaaaaggg gotttttttt 60
ttttccccc cctttttttt aacccttccc ctaatatctt ccccaaaaaa aaaaattttt 120
tttttttggg ggggggaaaa aaaaggga aaacaccccc cccccggggg ggggaaaaaa 180
accccccaaa aacccccctt ttgggggggt ccccccccat ggggggtccc ccccaattt 240
ttttccccc ccccaaaaaa tttttaacct ccccccaagg ggggtgaaaa ccttaaaaaa 300
aaccccccg aaaaacaaaa accccttttt taaaaaaaaa aaaaaattt ttggggggca 360
aaaccccc ccccaaaaaa accccccccc ccccccttaa aaaaaa 407

<210> 209
<211> 359
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 53, 121, 123, 128, 133, 142, 150, 174, 179, 183, 186,
196, 200, 201, 204, 207, 212, 215, 218, 224, 229, 230, 231,
243, 244, 249, 260, 261, 267, 268, 270, 273, 279, 289, 291,
295, 301, 303, 305, 312, 315, 337, 345, 357
<223> n = A,T,C or G

<400> 209
ncggggactg cgcgccgggtg cagagccggg cgtggggcag aacgaacggg ctncctgcgg 60
ctgagagcgt cgagtgtcac catgggtatc acgcttggag ctctctaaag gacttctcgg 120
nncgggcctc gcnctgccc tntccaagan cccggtcgcc ccaatcgag aggncaaaac 180
tgntgntgaa ggtgcenagan nccnagnaac angtnaantc ttangaagnn ntacaaaggg 240
gtnnattant tttttgggtan nattoennan gancoaggnt ttccttctnt ntgnagggt 300
nanctggca angtnattcc ttaatttccc aaccaangtt ttaantttgg ctttaangg 359

<210> 210
<211> 394
<212> DNA
<213> Homo sapiens

<400> 210
tttttttttt gcattaagtg gtctttattg atgtttcaca ttcaagtatt atcaattctt 60
cagttaattg tacaagtatg ataaattatt ttctatttgc tgtgggaatt taaatgtaaa 120
ataaatacaa aatacatgtg tgggttaaat aacactcaat gaagcatctc ttctgaggtg 180
ttcttttcag tctggtttta tcccaggatc tttttacttc ccttaggaat agtctattaa 240
accacacaaT ggatctgtga acttgtagat caagttoact gtaaatctgt gaacttgtgt 300
tttaattaca ttagacatat tttttgatct catcatacaa caccaatata aaaggcaccg 360
cccatgctc tcaggcacat tgggaccggg cacc 394

<210> 211
<211> 292
<212> DNA
<213> Homo sapiens

<400> 211
gggagccac cagcaagaat gagtggagc aatcttttca tgtgacctcc ttaacagata 60
tttactgaag gaatctaggT tgtattttca tgggacaatg ggaataaagg atttctaaag 120
caccgactcg agagggaagg aacagagaca aggagagaag ccgagagaca tgtctgcgtg 180
ctgccacgca tttgagcgat tgctctgtga agagttgtac actgaacctc ttcaggggag 240

```

gctgtttacc caggcaatgt cctcaaacaa gcctgtgcgc ggggtgtcctg ga 292

<210> 212

<211> 495

<212> DNA

<213> Homo sapiens

<400> 212

aattccgttg ctgtcgctgc gccacggtaa ttgagcaaaa ggccacagtg aactccggcg 60  
 tggctgagga aggaggaggo accacagggo tgcctgggagg agagcataag gctcaaaatg 120  
 gaaaatcata aatccaataa taaggaaaac ataacaattg ttgatatac cagaaaaaatt 180  
 aaccagcttc cagaagcaga aaggaatcta cttgaaaatg gatcgggtta tgttggatta 240  
 aatgctgctc tttgtggcct catagcaaac agtcttttct gacgcattct gaatgtgaca 300  
 aaggctcgca tagctgctgg cttaccaatg gcagggatac cttttcttac aacagactta 360  
 acttacagat gttttgtaag ttttcctttg aatacagggt atttgagttg tgaacctgt 420  
 accataaacg ggagtggact gactggtctt gttattgggt gctataccc tgttttcttg 480  
 gctatacttg taaat 495

<210> 213

<211> 358

<212> DNA

<213> Homo sapiens

<400> 213

tgcgacccgg atctcctgca gctggtgcac cacctcggcg atggacagcc gctcctccgg 60  
 gttcacctgc agcatggcga ggatgaggct gtggaagacc gtgtactgcg tgcctgtcgg 120  
 ggggatcgag taactcccat tgactattcg aagtttcgct ccactctcaa aagggtgctg 180  
 ccggaagcac agcaggtaca agatgcagcc cagggcccag atatcctgct tctcggcgat 240  
 cggaagttg gaatacaagt ctatgatctc tgggtgttcta tacattgggt ttgtattcct 300  
 cgtgatctga aaaaatacaa acatttcaaa ggaaaagttg catcccaaaa acagtatt 358

<210> 214

<211> 406

<212> DNA

<213> Homo sapiens

<400> 214

tggtacgcct gcaggtaacc gtcggaatt cccgggtcga cccacgcctc caggacatc 60  
 tggaatgtca ctgggtccca ggtgtacttg agctgtgagg tcatcggaat cccgacacct 120  
 gtctcatctt ggaacaaagt aaaaaggggt cactatggag ttcaaaggac agaactcctg 180  
 cctggtgacc gggacaacct ggccattcag acccgggggt gccagaaaa gcatgaagta 240  
 actggctggg tgcgtgtatc tctctaaagt aaggaagatg ctggagaata tgagtgcact 300  
 gcattccaat cccaaggaca ggcttcagca tcagcaaaaa ttacagtggg tgatgcctta 360  
 catgaaatac cagtgaaaaa aggtgaaggt gccgagctat aaacct 406

<210> 215

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 66, 71, 259

<223> n = A,T,C or G

<400> 215

aggacatctg gaatgtcact ggtgccccagg tgtacttgag ctgtgaggtc atcggaatcc 60

```

cgacancctgt nctcatctgg aacaaggtaa aaaggggtca ctatggagtt caaaggacag 120
aacttctgcc tgggtgaccgg gacaacctgg ccattcagac ccagaaaagc 180
atgaagtaac tggctgggtg ctggatatct ctctaagtaa ggaagatgct ggagaatatg 240
agtggccatgc atccaattnc caaggacagg ctccagcatc agcaaaaaat acagtgggtg 300

```

```

<210> 216
<211> 232
<212> DNA
<213> Homo sapiens

```

```

<400> 216
ttcaaaagct tagagagaat aagcttcttg gtgggtgaaat acaactctca cgtgtgctcc 60
agttctaaaa ttaacctgtg cctgggtctct gaagcccttt ctgtgctctgt gcctttcagc 120
cacatcctta ggtgctaacg gccatgagct ccgactctcc aaagtgagct ccactttggg 180
tctgaggagc ccttgccaga gtccacgctg cctcaggatc catgggccta at 232

```

```

<210> 217
<211> 453
<212> DNA
<213> Homo sapiens

```

```

<400> 217
ataagcttct tgggtggtgaa actacaactc tcacgtgtgc tccagttcta aaattaacct 60
gtgcctggct tctgaagccc tttcttgctc tgtgcctttc agccacatcc ttagggtgcta 120
acggccatga gctccgactc tccaaagtga gctccacttt ggggtctgagg agccccctggc 180
agagtcacag ctgcctcagg tatcatgggc gtaatgatca cccaggctcc gggagatctc 240
attgtagatt actgtatgag acagagggga ctccagttct tccaggggctc tgggtggaatt 300
tttggtctct gtgtttttcg cagacaataa acttacactg gaagctttga ttaccctccc 360
acagtaactcc agaaaaggact gtctctataa ttgtacactt taaaaaggta tgtagaggtt 420
gtagtagaat ggctttttcac cctgggtgact ttg 453

```

```

<210> 218
<211> 520
<212> DNA
<213> Homo sapiens

```

```

<400> 218
agatgtgtga gaagtgcctc acctgcccgg atgcatgcag caccaagaga gattgcgtcg 60
agtgcctgct gctccactct gggaaacctg acaaccagac ctgccacagc ctatgcaggg 120
atgaggtgat cacatgggtg gacaccatcg tgaagatga ccaggaggct gtgctatggt 180
tctacaaaac cgccaaggac tgcgtcatga tgttcacctc tgtggagctc ccagtggtga 240
agtcacacct gacctctctc agggagccag agtgtggaaa caccocccaa gccatgacca 300
tcctcctggc tgtggtcggt agcctcctcc ttggtgggct tgcactcctg gotatctgga 360
agctgcttgt caccatccac gaccggaggg agtttgcaaa gtttcagagc gagcgatcca 420
gggcccgcct tgaatggctc tcaaatctat tatacagaaa gcctatctcc acgcacactg 480
tggacttcac cttcaacaag ttcaacaaat cctacaatgg 520

```

```

<210> 219
<211> 404
<212> DNA
<213> Homo sapiens

```

```

<400> 219
agatgtgtga gaagtgcctc acctgcccgg atgcatgcag caccaagaga gattgcgtcg 60
agtgcctgct gctccactct gggaaacctg acaaccagac ctgccacagc ctatgcaggg 120
atgaggtgat cacatgggtg gacaccatcg tgaagatga ccaggaggct gtgctatggt 180

```

tctacaaaac	cgccaaggac	tgcgtcatga	tgttcaccta	tgtggagctc	cccagtgagg	240
agtcacaaac	gaccgtctct	aggagagccag	agtgtggaaa	cacccccaac	gccatgacca	300
tcctctcgcc	tgtgtgtcgt	agcctcctcc	ttgttgggct	tgcaactcctg	gctatctgga	360
agctgcttgt	caccatccac	gaccggaggg	agtttgcata	gttt		404

<210> 220  
 <211> 80  
 <212> DNA  
 <213> Homo sapiens

<400> 220	
atggcttcaa	atccattata cagaaagcct atctccacgc acactgtgga ctccaccttc 60
aacaagtcca	acaaatccta 80

<210> 221  
 <211> 607  
 <212> DNA  
 <213> Homo sapiens

<400> 221	
tgccccacct	gcccggatgc atgcagcacc aagagagatt ggcgtcagtg cctgctgctc 60
cactctggga	aacctgacaa ccagacctgc cacagcctat gcagggatga ggtgatcaca 120
tggttggaac	ccatcgtgaa agatgaccag gaggctgtgc tatgtttcta caaaaacgcc 180
aaggactgag	tcattgatgtt caccatgtgt gagctcccca gtgggaagtc caacctgacc 240
gtcctcaggc	agccagagtg tggaaacacc cccaacgcca tgaccatcct cctggctgtg 300
gtcgttagca	tcctccttgt tgggcttgca ctccgtgcta tctggaagct gcttgctacc 360
atccacgacc	ggagggagtt tgcataagttt cagagcgagc gatccagggc ccgctatgaa 420
atggcttcaa	atccattata cagaaagcct atctccacgc acactgtgga ctccaccttc 480
aacaagtcca	acaaatccta caatggcact gtggactgat gtttcctct ccagggggct 540
ggagcgggga	tctgatgaaa aggtcagact gaaacgcctt gcacggctgc tcggcttgat 600
cacaact	

<210> 222  
 <211> 583  
 <212> DNA  
 <213> Homo sapiens

<400> 222	
ggatgtgccc	atcacaaagca gatgtggcag tatttgaagc cgtgtccagc ccaccgcctg 60
ccgacttgtg	tcattgcctta cgttgttata atcacatcaa gtctttacgaa aaggaaaagg 120
ccagcctgcc	aggagtgaag aaagcctttg gcaaatatgt tcctgcgcat gtggaagaca 180
ctacaggag	tggagtacaa gatagtaaa atgatgatga cattgacctt ttgtgatctg 240
atgatagga	ggaaaagtga gaagcaaaaga ggctaaggga agaagctctt gcacaatatg 300
aatcaaaaga	agccaaaaaa cctgcacttg ttgccaagtc ttccattcta ctagatgtga 360
aaccttggga	tgatgagaca gatatggcga aattagagga gtgcgtcaga agcattcaag 420
cagacggctt	agtctggggc tcattctaac tagttccagt gggataccga attaagaaac 480
ttcaaatata	gtgtgtagt gtgaagatgata aagttggaac agatatgctg gaggagcaga 540
tcactgcttt	tgaggactat gtgcagtcga tggatgtggc tgc 583

<210> 223  
 <211> 296  
 <212> DNA  
 <213> Homo sapiens

<400> 223	
tacatcgagg	ggatgtgccc atcacaaagca gatgtggcag tatttgaagc cgtgtccagc 60
ccaccgcctg	ccgacttgtg tcattgcctta cgttgttata atcacatcaa gtctttacgaa 120

```

aaggaaaagg ccagcctgcc aggagtgaag aaagcttttg gcaaatatgg tctctgccgat 180
gtggaagaca ctacaggaag tggagctaca gatagtaaaag atgatgatga cattgacctc 240
tttggatctg atgatgagga ggaaagtga aaagcaaaga ggctaaggga agaagc 296

```

```

<210> 224
<211> 208
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 97
<223> n = A,T,C or G

```

```

<400> 224
gactacatct tggacctgca gatcgccctg gactcgcatc ccactatttg cagcctgcat 60
caccagagac ccggggcaga ccaggcgctc aggacgncgc tgaccacctc caacacggat 120
atcagcatcc tgtccttgca ggtctctgaa ttcctctctg agttaatgac aaatgacagc 180
aaagcactgt gtggctgaat aagcgggtg
208

```

```

<210> 225
<211> 274
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 133
<223> n = A,T,C or G

```

```

<400> 225
gcagcggctg gagcggcaga tcagccagga tgcgaagctg gagccagaca tctctgcttc 60
ggccaagcaa gatttctcga agacggacag tgactcggac ctacagctct acaaggaaaca 120
gggtgagggg canggtgacc ggagcctgct ggagcgtgat gtgctggaac gggagtttca 180
gcgggtcacc atctctgggg aggagaagtg tggggtgccc ttccacagacc tgctggatgc 240
agccaagatg tgggtcgggc gtcttccatc ggga 274

```

```

<210> 226
<211> 330
<212> DNA
<213> Homo sapiens

```

```

<400> 226
ggcgcgccct tttttttttt tttttttttg ggcccagggg gggccccctt gggaaaaaca 60
ccggggaaac ttcccaaagg ggccttgggg gaattttttt taaaaaaaac ccttttttta 120
aaaaaaactt tgggatttaa atttttttcc cgcccccctt tttggggccc gtaccccaat 180
ttaaaaaagg ggggcttttt aaaggttggt aaaaaaaaaa aattgggggg gcccaaaaaa 240
ttggggggcc cccaaaaaaa aagcgggggt tggaaaaaat ttgggggggt ttggaaattt 300
gggcccacaa acggggggacc cctttccccc
330

```

```

<210> 227
<211> 525
<212> DNA
<213> Homo sapiens

```

```

<400> 227
gaatttgccc ctcgaggcca agaattcggc acgagggttc acatagcaat ttaatcaagt 60

```

```

aatgggtaaat tagttacccc ctatatataa atatatgtaa tcaattttctt caaatagctt 120
gcttacatga taatcaatta gcccaaccatg agtcattttag aatagtgata aatagaatac 180
acagaaatagt gatgaaatcc aattttaaaaa atcacggttag cctcccaaac atttaattca 240
aatgaaccca tcaactggat gcccaactctg gcgaatgtag gacctctgag tggctgtata 300
attgtttaatt caaatgaaat tcattttaaac agttgacaaa ctgtcattca acaatttagct 360
ccaggaaata acagtttatt catcataaaa cagtcacctc aaacacacaa ttgttctgct 420
gaagagttgt catcaacaat ccaatgctca cctattcagt tgctctgtgg tcagtggtggc 480
tgcataacag tggattccat gaaaggagtc atttttagtga tgagc 525

```

```

<210> 228
<211> 788
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 42, 44, 48, 49, 51, 52, 53, 54, 55, 57, 59, 61, 62, 63, 64,
68, 69, 70, 71, 73, 74, 75, 76, 77, 79, 80, 83, 87, 89,
92, 93, 94, 95, 97, 98, 107, 112, 113, 117, 122, 125, 127,
130, 131, 133, 671, 677, 685, 706, 713, 718, 725, 757, 771
<223> n = A,T,C or G

```

```

<220>
<221> misc_feature
<222> 783
<223> n = A,T,C or G

```

```

<400> 228
gttcacatag caatttaato aagtaatcat taattagggg gngngggngg nnnnnngngnt 60
nnnnngtgnn ngnnnnnnnn ggngtgnngg tnnnnngngg gaggtgnnga anngtntttt 120
tntgngngan nantagaata cacagaatag tgatgaaatt caattttaaa aatcacgtta 180
gcotccaaac catttaatto aaatgaaccc atcaactgga tgccaactct ggccaatgta 240
ggacctctga tgggctgtat aattgttaat tcaaatgaaa ttcatttaaa cagttgacaa 300
actgtcattc aacaatttagc tccaggaaat aacagttatt tcattcataaa acagtcacct 360
caaacacaca attgttctgc tgaagagttg tcatcaacaa tccaatgctc acctattcag 420
ttgctctgtg gtcagtggtg ctgcataaca gtggattcca tgaaggaggt catttttagtg 480
atgagctgcc agtccattcc caggccaggc tgcgctggc catccattca gtgcattcag 540
tcatagcgga atctgtttct cccgaagctt gtgggtcaagc aaaaattcag cccgtgaaat 600
cagcacatct gttcgggtga ctaaaccaca gttagtctgt caagcagcaa cccctgtggc 660
atgaccgcca ntgggtncat gcgntngcac tgggagttgg ccaaaantcc gngggtcneg 720
gggntntttt tgtgggtttt ttttttttag tcttgtnttt gggtaagtg nttttttttt 780
tcnttggg 788

```

```

<210> 229
<211> 156
<212> DNA
<213> Homo sapiens

```

```

<400> 229
gccgagggaa gggcccgcca gctgaggagc cgtgagctt gctggacgac atgaaccact 60
gctactccgc cctgcgggaa ctggtaaccg gactcccgag aggcactcag cttagccagg 120
tggaatcct acagcgcgtc atcgactaca ttctcg 156

```

```

<210> 230
<211> 538
<212> DNA

```

```

<213> Homo sapiens

<400> 230
tacgactcct ataggggaatt tggccctega ggccaagaat tcggcacgag ggtgactttg 60
gctttgtctg catcatcgcc gagaagtcgt tcgcgcgcgc agtggtgggc acgccggcct 120
acctggccacc cgaggtgtgt ctcaaccagg gctacaaccg ctgcgtggac atgtggtcag 180
tgggcgtgat catgtacgtc agcctcagcg gcaccttccc ttccaacgag gatgaggaca 240
tcaatgacca gatccagaac gccgccttca tgtaccgcgc cagccccctg agccacatct 300
cagctggagc cattgacctc atcaacaacc tgcgtcaggt gaagatgcgc aaacgctaca 360
gctgtggaca atctctcagc cacccttggt tacaggagta ccagacgtgg ctggacctcc 420
gagagctgga ggggaagatg ggagagcgat acatcacgca tgagagtgac gacgcgcgct 480
gggagcagtt tgcagcagag catccgcgtc ctgggtcttg gctgccaccg gacaggga 538

<210> 231
<211> 232
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 18, 56, 94, 103, 117, 128, 145, 184, 204, 219
<223> n = A,T,C or G

<400> 231
tggctttgct cgcatacncg gcgagaagtc gtcccgcgcg tcagtgtgtg gcacgncggc 60
ctacctggca cccgaggtct tgctcaacca gggntacaac cgntcgctcg acatgtngtc 120
agtggtgntg atcatgtacg tcagncctcag cggcaccttc cctttcaacg aggatgagga 180
catnaatgac cagatccaga acgncgactt catgtaccng gccagaccct gg 232

<210> 232
<211> 420
<212> DNA
<213> Homo sapiens

<400> 232
taccggtccg gaattcccgg gtgcagccac gcgtccggcg tctctgtccc aaccaagtgc 60
cctggacatg ctgaccaagg tgatggccct agagctcggg ccccaacaaga tcagagttaa 120
tgcaagtaac cccacagtgg tgatgacgtc catgggcccag gccacctgga gtgaccccc 180
caaggccaag actatgtcta accgaatccc acttgccaag tttgtgagg tagagcacgt 240
ggtgaacgcc atcctcttct tgcgtagtga ccgaagtggc atgaccacgg gtcccaactt 300
ggcgggtgaa gggggcttct gggcctgctg agctccctcc acacacctca agccccatgc 360
cgtgctcatt ctacccccaa tccctccaat aaacctgatt ctgctgccca aaaaaaaaaa 420

<210> 233
<211> 294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 2, 170
<223> n = A,T,C or G

<400> 233
ngtctactg ctcacccaag ggtgccctgg acatgctgac caaggtgatg gccttagagc 60
tcgggcccc  caagatccga gtgaatgcag taaacccac agtggtgatg acgtccatgg 120

```

```

gccaggccac ctggagtgac cccacaagg ccaagactat gctgaaccgn atcccacttg 180
gcaagtttgc tgaagtagag cagtggtga acgccatcct ctttctgctg agtgaccgaa 240
gtggcatgac cacgggttcc actttgccgg tggaaggggg tttcggggct gctg 294

```

```

<210> 234
<211> 55
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 42
<223> n = A,T,C or G

```

```

<400> 234
gtctcggtcc atgactctgg agatccgaga aggaagaggc tntggcctga gaaag 55

```

```

<210> 235
<211> 394
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 22, 335, 365, 377, 383, 391
<223> n = A,T,C or G

```

```

<400> 235
ttttttgttc atttatattt tntttaagag ctgtgcccgag ttttatcctc tcacaagaat 60
gaagcaaggg acaaaggtaa gtgccacgct ccttgcccac tgggttctct gcaagctccc 120
agccaactagg tggcaatctc ccttcaatgt actccttctt cccaagagtg cagaagcgta 180
tgaagacagt tatgacatgg acacatgcat gagctattat acataattac aaaagctgat 240
tctgtcatca ccacatcttg tctcatcagt aggagcgaat ggctggcggg acggtggcac 300
agtcagcctt gttcaaaagt ttgtcgatca cgggnctctat attccagagt gacctttccc 360
agtnccaac gttccanata ggnccagggtc ntgc 394

```

```

<210> 236
<211> 468
<212> DNA
<213> Homo sapiens

```

```

<400> 236
agctcgggat tcggctcgag gacctggaaa ttccagggtg tgagctgcat cgaaggggag 60
cctgggcccgc tcaggagcgt cctcttcaac ccagacggct gctgcctgta cagcggtgtgc 120
caggactcac tgcgtgtcta cggctgggaa cctgagcggg gctttgatgt ggtcctcgct 180
aactggggcca aggtggccga cctggccatc tgcaatgacc agttgatagg tgtggccttc 240
tcccagagca acgtctcttc ctacgtggtg gatctgacgc gtgtccaccg gactggcacg 300
gtggcccggg accctgtgca ggaccaccgg cccctggcac agccactgcc caaccaccgc 360
gccccctccc ggcgcattta tgagcgcccc agcacaacct gcagcaagcc tcagaggggtg 420
aagcagaact cagagagcga gcgcgcgacc cccagcagcg aggatgac 468

```

```

<210> 237
<211> 254
<212> DNA
<213> Homo sapiens

```

```

<220>

```



```

<221> misc_feature
<222> 48, 85, 97
<223> n = A,T,C or G

<400> 237
gacctggaga agttccagggt ggtgagctgc atcgaagggg agcctggncc cgtcaggagc 60
gtctcttcca acccagacggt ctgengcctg tacagengct gccaggactc actgcgtgtc 120
tacggctggg aacctgagcg gtgctttgat gtggtcctcg tcaactgggg caagtggtcc 180
gacctggcca tctgcaatga ccagttgata ggtgtggcct tctcccagag caacgtctcc 240
tctactgttg tgga 254

<210> 238
<211> 419
<212> DNA
<213> Homo sapiens

<400> 238
gaacccacggt tccgtcttcca acttcttttag tctctctgag attcctatga ttgggaagct 60
ggaaccacga gaagatgcta tcttgatga ggactttgaa attgggcaga ttttacatga 120
taattgtcatc ctgaaatcaa tctattacta tactggagaa gtcaatggta cctactatca 180
atttgccaaa cattatggaa acaagaaata cagaaaataa gtcaatctga aagatttttc 240
aagaatctta aaatctcaag aagtgaagca gattcataca gccttgaaa aagtaaaacc 300
ctgacctgta acotgaacac tattattcct tatagtcagg tttttgtggt ttcttggtag 360
tctatatttt aaaaaatgct ctaaaaagtg tctaagtgc agttattct atctaggt 419

<210> 239
<211> 228
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 190
<223> n = A,T,C or G

<400> 239
gaaccccgcc cgccggccaca gcgtctgctc cacctccagc ttgtacctgc aggatctgag 60
cgccgcgcgc tcagagtga cgaacccctc ggtggtcttc cctaccctc tcaacgacag 120
cagctcgccc aagtcctgcg cctcgcaaga ctcacgcgc ttctctccgt cctcggtatc 180
tctgcaactn tcgacggagt cctcccgcga ggcagcccc gagcccc 228

<210> 240
<211> 525
<212> DNA
<213> Homo sapiens

<400> 240
aaccgccccc ggggccacag cgtctgctcc acctccagct tgtacctgca ggaatctgagc 60
gccgcgcgct cagagtgcac cgaacccctc gtggtcttcc cctaccctct caacgacagc 120
agctcgccca agtcctgcgc ctcgcaagac tcacgcgctc tctctcgtc ctcgattct 180
ctgctctctc cgacggagtc ctcccgcgag ggcagcccc agccctcggt gtcctatgag 240
gagacacccc caaccaccag cagcgactct gaggaggaa aagaagatga ggaagaaac 300
gatgtgtttt ctgtgaaaaa gaggcaggct cctggcaaaa ggtcagagtc ttgatcacct 360
tctgctggag gccacagcaa acctcctcac agcccaactg tctcaagag gtgccacgct 420
tccacacatc agcacaaacta cgcagcgct cctccaact ggaaggacta tctctgctgc 480
aagagggtca agttggacag tgtcagagtc ctgagacaga tcagc 525

```

```

<210> 241
<211> 552
<212> DNA
<213> Homo sapiens

<400> 241
tggaaggaac tgggtctgct acacttgcgt gcttgccgat caggactggc tttatctcct 60
gactcacggt gcaaaaggtg actctgcgaa cgttaagtcc gtcccagcgc ttggaatcct 120
acggccccc aagccgggac cctcagcct tccaggctct caactccgcg ggacgctgaa 180
caatggcctc catgggggta caggtaatgg gcatcgcgct ggcgcgtcgt ggctggctgg 240
ccgtcatgct gtgctgcgcg ctgcccatgt ggcgcgtgac ggccttcac gccagcaaca 300
ttgtcacctc gcagaccatc tgggaggggc tatggatgaa ctgcgtggtg cagagcaccg 360
gccagatgca gtgcaaggtg tacgacttgc tgcctggcact gccgcaggac ctgcaggcgg 420
cccgcgcctc cgtcatcatc agcatcatcg tggctgctct gggcgtgctg ctgtccgtgg 480
tggggggcaa gtgtaccaac tgctggagg atgaaagcgc caaggccaag accatgatcg 540
tggcgggcgt gg 552

<210> 242
<211> 519
<212> DNA
<213> Homo sapiens

<400> 242
tggaaggaac tgggtctgct acacttgcgt gcttgccgat caggactggc tttatctcct 60
gactcacggt gcaaaaggtg actctgcgaa cgttaagtcc gtcccagcgc ttggaatcct 120
acggccccc aagccgggac cctcagcct tccaggctct caactccgcg ggacgctgaa 180
caatggcctc catgggggta caggtaatgg gcatcgcgct ggcgcgtcgt ggctggctgg 240
ccgtcatgct gtgctgcgcg ctgcccatgt ggcgcgtgac ggccttcac gccagcaaca 300
ttgtcacctc gcagaccatc tgggaggggc tatggatgaa ctgcgtggtg cagagcaccg 360
gccagatgca gtgcaaggtg tacgacttgc tgcctggcact gccgcaggac ctgcaggcgg 420
cccgcgcctc cgtcatcatc agcatcatcg tggctgctct gggcgtgctg ctgtccgtgg 480
tggggggcaa gtgtaccaac tgctggagg atgaaagcgc 519

<210> 243
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 64, 187, 195
<223> n = A,T,C or G

<400> 243
aggttctca tctgctgcgg aggatgcctt ttctctctg ccttgcgaaa taacagcagc 60
ctantctgt cccgtgacca gtgagaaagg cagcgtcacg ggctgattag gtttcaccca 120
aagggtgccc gcgcgaattt ggtttctaac gagaactttt aaaatgatcc gttccaaaaa 180
agggtagang ccgcnagacc ctccaactgc ccagagaaaa caagtctcgt ctggcaaaat 240
tctcgcccaa cgcgggtccc ggccaagggg caaaggctct cgcgccacgt tgccga 296

<210> 244
<211> 273
<212> DNA
<213> Homo sapiens

<400> 244
cttgcccatg gcgaattgtg gatgactgtg gtggggcctt tacgatgggt accattgggt 60

```

```

gtggtatctt tcaagcaatc aaaggttttc gcaattctcc agtgggagta aaccacagac 120
tacgaggagag tttgacagct attaaaaaca gggtccaca gttaggaggt agctttgag 180
tttggggagg gctgttttcc atgattgact gtagtatggt tcaagttaga ggaaggag 240
atccctggaa ctccatcaca agtggtgctt taa 273

```

```

<210> 245
<211> 386
<212> DNA
<213> Homo sapiens

```

```

<400> 245
ttcgaattcg gcacgaggct c gatgtacgt cccggaggac ctcttccc totacaaaga 60
aaaagtgggt cgcgttgacg acattatcac gcccaaccag tttgaggccg agttactgag 120
tgcccggaag atccacagcc aggagggaag cttgcgggtg atggacatgc tgcactctat 180
gggccccgac accgtgggtc tcaccagctc cgacctgcc tcccccgagg gcagcaacta 240
cctgattgtg ctggggagtc agaggaggag gaatcccgct ggctccgtgg tgatggaaacg 300
catccggatg gacattcgca aagtggagcc cgtctttgtg ggcaactggg acctgtttgc 360
tgccatgctc ctggcggtga cacaca 386

```

```

<210> 246
<211> 239
<212> DNA
<213> Homo sapiens

```

```

<400> 246
tttttttttt caaaaaagtc atggaggcca tgggggtggc ttgaaaccag ctttgggggg 60
ttcgattctc tctttttttg cctaaaatttt atgtatacgg gttcttcaaa tgtgtggtag 120
gggtgggggg atccatagag tcaactccagg tttatggagg gttcttctac tattaggact 180
tttcgcttca aagcgaaggc ttctcaaatc atgaaaatta ttaattattc tgctgttaa 239

```

```

<210> 247
<211> 623
<212> DNA
<213> Homo sapiens

```

```

<400> 247
aaaaagtcac ggaggccatg gggttggttc gaaaccagct ttgggggggt cgattccttc 60
cttttttttc tagattttat gtatacgggt tcttcgaatg tgtggtaggg tggggggcat 120
ccatatagtc actccaggtt tatggagggt tcttctacta ttaggacttt tcgcttcgaa 180
gcgaaggctt ctcaaatcat gaaaattatt aatattactg ctgttagaga aatgaatgag 240
cctacagatg ataggatggt tcatgtggtg tatgcacggt ggtagtcgca gtaacgtcgg 300
ggcattccgg ataggccgag aaagtgtgtt ggggaagaaa ttagatttac gccgatgaat 360
atgatatgta aatggatttt ggcgtagggt tggctagggt tgtagccctga gaatagggga 420
aatcagtgaa tgaagctccc tatgatggca aatcacagct ctattgatag gacatagtg 480
aagttagcta caacgtagta cgtgtcgtgt agtacgatgt ctagtgatga gtttgcataa 540
acaatgccag tcaggccacc tacggtgaaa agaaagatga atcctagggc tcagagcact 600
gcagcagatc atttcatatt gct 623

```

```

<210> 248
<211> 265
<212> DNA
<213> Homo sapiens

```

```

<400> 248
ggcttagcgg ataacaattt cacacaggag ttgcaccata atcatcgcta tccccaccgg 60
cgctaaagta tttagctgac tcgccacact ccacggaagc aatatagaat gatctgctgc 120
agtgtctga gccctaggat tcatctttct ttccaccgta ggtggcctga ctggcattgt 180

```

attagcaaac tcatcactag acatcgtact acacgacacg tactacggtg tagctcactt 240  
ccactatgtc ctatcaatag gagct 265

<210> 249  
<211> 625  
<212> DNA  
<213> Homo sapiens

<400> 249  
aatcactgct atccccaccg gcgtcaaagt atttagctga ctgcacacac tccacggaag 60  
caatatgaaa tgatctgctg cagtgcctctg agccttagga ttcattcttc tttcacctg 120  
agggtggcctg actggcattg tattagcaaa ctcatcacta gacatcgtac tacacgacac 180  
gtactacgtt gtagctcact tccactatgt cctatcaata ggagctgtat ttgccatcat 240  
aggaggcttc attcactgat ttccctatt ctccaggctac accctagacc aaacctacgc 300  
caaaatccat ttcactatca tattcatcgg cgtaaatcta actttcttcc cacaacactt 360  
tctcggctca tccggaatgc cccgacgtta ctcggaactac cccgatgcac acaccacatg 420  
aaacatccta tcatctgtag gctcattcat ttctctaaca gcagtaatat taataatttt 480  
catgatttga gaagccttcg cttcgaagcg aaaagtccta atagtagaag aacctccat 540  
aaaacctggag tgactatatg gatgcccccc accctaccac acattcgaag aacctgtata 600  
cataaaatct agacaaaaaa ggaag 625

<210> 250  
<211> 253  
<212> DNA  
<213> Homo sapiens

<400> 250  
ggcttgtaat acgactcact atagggcctt ttttttttca aaaaagtcat ggaggccatg 60  
gggttggtt gaaaccagct ttggggggtt cgattctctc cttttttgtc taatttttat 120  
gtatacgggt tcttcaaatg tgtggttagg tggggggcat ccataatgct actccaggtt 180  
tatggagggt tcttctacta ttaggacttt tcgcttcaaa gcgaaggctt ctcaaatcat 240  
gaaaattatt aat 253

<210> 251  
<211> 290  
<212> DNA  
<213> Homo sapiens

<400> 251  
caaaactcatc actagacatc gtactacacg acacgtaacta cgttgttagct cacttccact 60  
atgtccatc aataggagct gtatttgcca tcataggagg cgtcattcac tgatttcccc 120  
tattctcagg ctacacccta gaccaaaact acgcaaaaat ccatttccact atcatattca 180  
tcggcgtaaa tctaaacttc ttcccacaac actttctcgg ctatccgga atgccccgac 240  
gttattcgga ctaccccgat gcatacacca catgaaacat cctatcatct 290

<210> 252  
<211> 638  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 522, 634, 636  
<223> n = A,T,C or G

<400> 252  
atatttacag taggaataga cgtagacaca cgagcatatt tcacctccgc taccataatc 60

atcgctatcc	ccaccggcgt	caaagtattt	agctgactcg	ccacctcca	cggaagcaat	120
atgaatgat	ctgctgcagt	gctctgagcc	ctaggattca	tctttctttt	caccgtaggt	180
ggcctgactg	gcattgtatt	agcaaaactca	tcactagaca	tcgtactaca	cgacacgtac	240
tacgttttag	ctcacttcca	ctatgtccta	tcaataggag	ctgtatttgc	catcatagga	300
ggcttcaatc	actgatttcc	cctattctca	ggctacaccc	tagaccaaac	ctacgccaaa	360
atccattcca	ctatcatatt	catcggcgta	aatctaaact	tcttcccaca	acattttctc	420
ggcctatccg	gaatgccccg	acgttattcg	gactaccccg	atgcatacac	cacatgaaac	480
atccatcat	ctgtaggctc	attcattttct	ctaacagcag	tnatattaat	aattttcatg	540
atttgagaag	ccttcgcttc	gaagcgaaaa	gtcctaatag	tagaagaacc	cttcataaac	600
ctggagtgc	tatatggatg	ccccccaccc	tacnanca			638

<210> 253  
 <211> 531  
 <212> DNA  
 <213> Homo sapiens

<400> 253						
ggcttagcgg	ataacaattt	cacacaggag	ttgcaccata	tatttacagt	aggaatatag	60
gtagacacac	gagcatattt	cacctccgct	accataatca	tcgctatccc	caccggcgtc	120
aaagtatttta	gctgactcgc	cacactccac	ggaagcaata	tgaatgatc	tgctgcagtg	180
ctctgagccc	taggattcat	ctttcttttc	accgtagggtg	gctgactgg	cattgtatta	240
gcaaacctcat	cactagacat	cgtactacac	gacacgtact	acgttgtagc	tcatttccac	300
tatgtcctat	caataggagc	tgtatttgc	atcataggag	gttccattca	ctgattttccc	360
ctatttctcag	gctacaccc	agacccaaac	taegccaaaa	tccatttcc	tatcatattc	420
atcgccgtaa	atctaaactt	cttcccacaa	cactttctcg	gcctatccgg	aatgccccga	480
cgttactcgg	actaccccca	tgcatacacc	acatgaaaca	tcctatcatc	t	531

<210> 254  
 <211> 625  
 <212> DNA  
 <213> Homo sapiens

<400> 254						
atattttacag	taggaataga	cgtagacaca	cgagcatatt	tcacotccgc	taccataatc	60
atcgctatcc	ccaccggcgt	caaagtattt	agctgactcg	ccacctcca	cggaagcaat	120
atgaatgat	ctgctgcagt	gctctgagcc	ctaggattca	tctttctttt	caccgtaggt	180
ggcctgactg	gcattgtatt	agcaaaactca	tcactagaca	tcgtactaca	cgacacgtac	240
tacgttttag	ctcacttcca	ctatgtccta	tcaataggag	ctgtatttgc	catcatagga	300
ggcttcaatc	actgatttcc	cctattctca	ggctacaccc	tagaccaaac	ctacgccaaa	360
atccattcca	ctatcatatt	catcggcgta	aatctaaact	tcttcccaca	acattttctc	420
ggcctatccg	gaatgccccg	acgttactcg	gactaccccg	atgcatacac	cacatgaaac	480
atccatcat	ctgtaggctc	attcattttct	ctaacagcag	taatattaat	aattttcatg	540
atttgagaag	tcttcgcttc	gaagcgaaaa	gtcctaatag	tagaagaacc	cttcataaac	600
ctggagtgc	tatatggatg	cccccc				625

<210> 255  
 <211> 217  
 <212> DNA  
 <213> Homo sapiens

<400> 255						
tttttttttt	taaaaagtca	tggaggccat	ggggttggct	tgaaccacc	tttggggggt	60
tcaatccctt	ccttctttgt	ctaaatttta	tgtatccggg	ttcttcaaat	gtgtggtagg	120
ggggggggca	tccatatagc	ccctccaggt	ttatggaggg	ttcttctact	attagaactt	180
ttcccttcaa	agcaaaaggct	tctcaaatca	tgaaaat			217

<210> 256

```

<211> 636
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 496, 562, 564, 605, 635
<223> n = A,T,C or G

<400> 256
aaagtcacgg agggccatgg gttggcttga aaccagcttt ggggggttcg attccttctc 60
tctttgtcta gattttatgt atacgggttc ttccaatgtg tggtaggggtg gggggcatcc 120
atatagtcac tccagggtta tggagggttc ttctactatt aggacttttc gcttcgaagc 180
gaaggcttct caaatcatga aaattattaa tattactgct gttagagaaa tgaatgagcc 240
tacagatgat aggatgtttc atgtggtgta tgcacgggg tagtccgagt aacgtcgggg 300
cattccggat aggccgagaa agtggtgtgg gaagaaagt agatttacg cgatgaatat 360
gatagtgaat tggattttgg cgtagggttg gtctagggtg tagcctgaga ataggggaaa 420
tcagtgaatg aagcctccta tgatggcaaa tacagctcct attgatagga catagtggaa 480
gtgagctaca acgtantacg tgtcgtgtag tacgatgtct agtgatgagt ttgtcaatc 540
aatgccagtc aggccaccta cngngaaaaa gaaagatgaa tcctagggct caaaaacct 600
gcacnagatc atttcatatt ggcttcogtg gagtnc 636

<210> 257
<211> 279
<212> DNA
<213> Homo sapiens

<400> 257
ggcttagcgg ataacaattt cacacaggag ttgcaccata atcatcgcta tccccaccgg 60
cgtaaaagta ttttagctgac tcgccacct ccacggaagc aatatgaaat gatctgtctg 120
agtgtcttga gccctaggat tcacttttct tttaaccgta ggtggcctga ctggcattgt 180
attagcaaac tcatcactag acatcgtact acacgacacg tactacgttg tagctcactt 240
ccactatgtc ctatcaatag gagctgtatt tgcoactat 279

<210> 258
<211> 623
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 537
<223> n = A,T,C or G

<400> 258
aatcatcgct atccccaccg gcgtcaaaat atttagctga ctgccacac tccacggaag 60
caatatgaaa tgatctgtcg cagtgtctcg agccctagga ttcatcttcc ttttcaccgt 120
aggtggcctg actggcattg tattagcaaa ctcatcacta gacatcgtae tacacgacac 180
gtactacgtt gtagctcact tccactatgt cctatcaata ggagctgtat ttgccatcat 240
aggaggcttc attcactgat ttccctatt ctcaggctac accctagacc aaacctacgc 300
caaaaatcat ttcactatca tattcatcgg cgtaaaatcta acttttctcc cacaacactt 360
tctcggccta tccggaatgc cccgacgtta ctcgactac ccgatgcat acaccaatg 420
aaacatccta tcatctgtag gctcattcat ttctctaaca gcagtaatat taataatttt 480
catgatttga gaagccttcg cttcgaagcg aaaagtccta atagtagaag aacctncaat 540
aaacctggag tgactatag gatgccccc accctaccac acattcgaag aacctgtata 600
cataaaatct agacaaaaaa gga 623

```

```

<210> 259
<211> 189
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 170, 173
<223> n = A,T,C or G

<400> 259
tgggcctttcc cccttcattg gagacaaaga taacgaaacc ttggccaacg ttacctcagc 60
cacctggggac ttgcagcagc aggcatttoga tgagatctcc gacgatgcc aaggatttcat 120
cagcaatctg ctgaagaaga atatgaaaaa ccgcctggac tgcacgcagn ctntcagcat 180
ccatggcta 189

<210> 260
<211> 507
<212> DNA
<213> Homo sapiens

<400> 260
cctttccccc ttctgggag acaacgataa cgaaaccttg gccaacgtta cctcagccac 60
ctgggacttc gacgacgagg cattcgatga gatctccgac gatgccaaagg atttcacagc 120
caatctgctg aagaagaaga tgaaaaaccg cctggactgc acgcagtgc ttccagcatcc 180
atggctaagt aaagatacca agaaccatgga ggccaagaaa ctctccaagg accggatgaa 240
gaagtacatg gcaagaagga aatggcagaa aacgggcaat gctgtgagag ccattgggaag 300
actgtcctct atggcaatga tctcagggtc cagtggcagg aaatcctcaa cagggtcacc 360
aaccagcccg ctcaatgcag aaaaactaga atctgaagaa gatgtgtccc aagctttcct 420
tgaggctgtt gctgaggaaa agcctcatgt aaaaacctat ttctctaaga ccattcgaga 480
tttagaagtt gtggagggaa gtgctgc 507

<210> 261
<211> 193
<212> DNA
<213> Homo sapiens

<400> 261
tttttttttt tttttttttt ttttttggcc gagactccaa gactattatt tttatttccg 60
gacaaaaaca ttctgttcac acagtgcacg gcatacaaat aagaggaaag aacttgtatc 120
ccaaagcctg gctttctgta tcatccacaa attaagacag catctgtcta gcccatgctg 180
agcctgtcac agt 193

<210> 262
<211> 235
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 183, 184, 185, 193
<223> n = A,T,C or G

<400> 262
cccacttccc caggagcagg ccacagaccc ccttgtggac agcctgggca gtggcattgt 60
ctactcagcc cttacctgcc acctgtgcgg ccacctgaaa cagtgtcatg gccaggagga 120
tggtggccag acccctgtca tggccagtc ttgctgtggc tgcctgtgtg gagacaggtc 180

```

ctnnnnccct acnacccccc tgagggcccc agaccctct ccaggtgggg ttcca 235

<210> 263  
<211> 493  
<212> DNA  
<213> Homo sapiens

<400> 263  
agaatttcag cagttctctg atttttatat tttatctctc ttctatcca atccctgcct 60  
tttgagttcca ggtggttaagt acattttctt taacgttttt cctgcttttc ttcccaaatg 120  
tgtctttttc tttgggctac tgtaccctgc ttccagtgct gtccccggca taggtccatc 180  
tctgcagaag ccatttcagg agtacctgga ggctcaacgg cagaagcttc accacaaaag 240  
cgaaatgggc acaccacagg gagaaaaactg cttgtcctgg atgtttgaaa agtcggtcga 300  
tgtcatgggt tgttacttca tctatctctat cattaaactcc atggcacaaa gttatgccaa 360  
acgaatccag cagcgggtga actcagagga gaaaactaaa taagttaga aagtttttaa 420  
ctgcagaaat tggagtggaat gggttctgccc ttatttggg aggaactccaa gccgggaagg 480  
aaaattccct ttt 493

<210> 264  
<211> 345  
<212> DNA  
<213> Homo sapiens

<400> 264  
agaatttcag cagttctctg atttttatat tttatctctc ttctatcca atccctgcct 60  
tttgagttcca ggtggttaagt acattttctt taacgttttt cctgcttttc ttcccaaatg 120  
tgtctttttc tttgggctac tgtaccctgc ttccagtgct gtccccggca taggtccatc 180  
tctgcagaag ccatttcagg agtacctgga ggctcaacgg cagaagcttc accacaaaag 240  
cgaaatgggc acaccacagg gagaaaaactg gttgtcctgg atgtttgaaa agtcggtcgt 300  
tgtcatgggt tgttacttca tctatctctat cattaaactcc atggg 345

<210> 265  
<211> 374  
<212> DNA  
<213> Homo sapiens

<400> 265  
tagaagagct aacctcacac tcateccact ctaaaactat tgattcaaca ctgattttac 60  
atccaacaaa gtgaaatctt gatagttggg tgtaaaaagg agagtaatgg agatttcaga 120  
tgagttgggg ttgcttactt ttcatcttta attctttaagg ttttgaatg taacacattc 180  
aagcattata gatgatcttc tttttactac tgaactaatg aagccttttt cattgcattg 240  
ttctgcattt atttctacag ggagaaaaact ggttgcctgg gatgtttgaa aagttggctg 300  
ttgtcatggg gtgttacttc atctatctca tcaattaaact catggcacaa agttatgcca 360  
aacgaatcca gcag 374

<210> 266  
<211> 360  
<212> DNA  
<213> Homo sapiens

<400> 266  
tttttttttt tttttttttg tgcgggtggga attctctaatt tgtatcatgt gggccttttg 60  
aaagtaacaa acagaaggcc agtcctctgc aagtttctgt ctgaacatca cattccaccc 120  
taagaaaaaa caaggtggat tgcactcgag gtggataact taaccttagca cgggaaggaaa 180  
aagatgtca gtgcaaaagt tggactaaac tgctttcagg tcaaaaattga 240  
tacaggttgg aaaaagggaat tttccttccc ggcttggagt cctcccaatt taaggcagaa 300  
cccattccact ccaattttctg cagtttataaa ctttctctac ttatttagtt ttctcctctg 360



```

<210> 267
<211> 247
<212> DNA
<213> Homo sapiens

<400> 267
ctggaattgt catcttttga acagtgtattg caacagcact tatgggattg acagagaaac 60
tgattttttc cctgagagat cctgcataca gtacattccc gccagaaggt gttttcgtaa 120
atacgccttg ccttctgato ctggtgttcg ggccctcat tttttggata gtcaccagac 180
cgcaatggaa acgtcctaag gagccaaatt ctaccattct tcatccaaat ggaggcatga 240
acaggga                                         247

<210> 268
<211> 350
<212> DNA
<213> Homo sapiens

<400> 268
taatggattt gtttggagat ggcattgttg tagacgactg aatatggaaa ggatatcaag 60
ttatctattt tgtttaattt atttttgttt tttatcatct agatttttat catggattag 120
totgaaattt aaagttctcg ccagtcgggt ttctttcatc ttgtagtttt tacagtattt 180
ccactgtgca tatgcaaaat gggatttaca taactgtatc atatttggtt ttgataattt 240
tttttttttt ttggaaacgg gtttttgttt tggcccagcc caaaaacatc ccttggttac 300
cccttcgggg gaaaaaaaac caaacccctt ttctcgggaa aaaaaaaggg          350

<210> 269
<211> 455
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 81, 195, 231, 247, 298, 307, 317, 395, 427, 446, 451
<223> n = A,T,C or G

<400> 269
ttttttttta atcaaaagagt agttttattaa aaaaggaatc aaacaggaaa ctctaagtac 60
cagtggtgtac attgtacaat nttaaatgac tcacgagaat gaagtttttt tcaaatatat 120
taagatcaca ccaccttgtt gtttatcgaa agatattcaa ggagaaagat ctgactctcc 180
aaactgcac tgagnattgc cacttttaaac aggacctcat ttcaaacatg ncaacaacgc 240
cactggntaa taaaggcttt gggaaatggg tgctcattct attatttcac tacaaaacngc 300
atagganagg caggagnagt tggggaattt attctaaaat aggaatggga gggttgcca 360
tctacagcag gcactccttc acttcctctg ttgnccttt ttaggcagta ctcttggtc 420
ggtcttngaa cggtttttcca accctnttca ntggg                                         455

<210> 270
<211> 444
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 17, 20, 391, 430
<223> n = A,T,C or G

```

```

<400> 270
ttttctgacg tctgttncn aggcgtggaag aaatgagcag aaaacaagg atgagtactt 60
tttagagtat gtgcagtgtta cgtaatacct gtttctggcg aatgctgctt ctctgactc 120
aacaatggg gagagcaaat tgaaaatgcg taaattggaa ggcaagttct gaaattaaac 180
gttgactctt ggocctgagt tctgaccttt aagggaagcaa gagtttgtaa acttccaaat 240
atttactatt ctgaactgcc gtgtaaacct gacgtattcc caagtcacaa taccagta 300
ccaataggtat gtgaataaagt tttgtgttga gttttaaacc atagcagttt tgcctcgga 360
agtaatggaa agcgttctcg cttcctgagt ntgagctcca gcagactgca gagtggccag 420
tgccacagtn gtgacgtgac tttc
444

```

```

<210> 271
<211> 502
<212> DNA
<213> Homo sapiens

```

```

<400> 271
ggttctgcgc tggctcgccg agtagcaagt ggccatgggg agcctcagcg gtctgcgcct 60
ggcagcagga agctgtttta ggttatgtga aagagatggt tctctatctc taaggcttac 120
cagaagctct agattgaaga gaataaatgg attttgcaca aaaccacagg aaagtcccg 180
gatccatccc cgcacttaca acagagtgcc ttacacaaa cctacggatt ggcagaaaaa 240
atcctcata tggctcaggtc gcttcaaaaa ggaaggtgaa atcccagaga ctgtctcgtt 300
ggagatgctt gatgctgcaa agaacaagt gcgagtgaag atcagctatc taatgattgc 360
cctgacggtg gtaggatgca tctctatggt tattgagggc aagaaggctg cccaagaca 420
cgagacttta caaagcttga acttagaaaa gaaagctcgt ctgaaagagg aagcagctat 480
gaaggccaaa acagagttag ag
502

```

```

<210> 272
<211> 377
<212> DNA
<213> Homo sapiens

```

```

<400> 272
ggttctgcgc tggctcgccg agtagcaagt ggccatgggg agcctcagcg gtctgcgcct 60
ggcagcagga agctgtttta ggttatgtga aagagatggt tctctatctc taaggcttac 120
cagaagctct agattgaaga gaataaatgg attttgcaca aaaccacagg aaagtcccg 180
agctccatcc cgcacttaca acagagtgcc ttacacaaa cctacggatt ggcagaaaaa 240
gatcctcata tggctcaggtc gcttcaaaaa ggaaggtgaa atcccagaga ctgtctcgtt 300
ggagatgctt gatgctgcaa agaacaagt gcgagtgaag atcagctatc taatgattgc 360
cctgacggtg gttagaa
377

```

```

<210> 273
<211> 552
<212> DNA
<213> Homo sapiens

```

```

<400> 273
agctcggaat tcggctcgag tctgctcagc ctgggtgaacc cacaggcccg agtttcaccc 60
agtecccaat ccacggctgca gctgcgggtt atctctcagc ccagcgagat gccagccttc 120
ctgtcccggt ccagcgctctc gacatgcaga aggtgacctt gggcctgctt gtgttctcgt 180
caggctttcc tgtcctggac gccaatgacc tagaagataa aaacagtcct ttctactatg 240
actggcaacg cctccaggtt ggccgggtca tctgcgctgg ggttctgtgc gccatgggca 300
tcatcatcgt catgattgca aaatgcaaat gcaagtttgg ccagaaatcc ggtcaccatc 360
caggggagac tccacctctc atcaccccaag gctcagccca aagctgatga ggacagacca 420
gctgaaattg ggtggaggac cgttctctgt ccccaggctc tgtctctgca cagaaacttg 480
aactccagga tggaaattct cctcctctgc tgggactcct ttgcatggca gggcctcatc 540
tcacctctcg ca
552

```

```

<210> 274
<211> 186
<212> DNA
<213> Homo sapiens

<400> 274
ctgctcagcc ttggtgaacac acagcccgat ttacccagtc cccactccag gtgcagctgc 60
ggcttatctc tcagccccagc gagatgccag ccttctctgc ccgggccagc gctctgacat 120
gcagaagggtg accctgggcc tgcttgtgtt cctggcaggc ttctctgtcc ttggacgcaa 180
tgacct                                     186

<210> 275
<211> 121
<212> DNA
<213> Homo sapiens

<400> 275
tctgctcagc ctggtgaacc acacaggccc gagtttcacc cagtcccac tccacggtgc 60
agctgcggct tatctctcag ccagcgcaga tgccagcctt cctgtcccg ggccagcgctc 120
t                                           121

<210> 276
<211> 336
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 336
<223> n = A,T,C or G

<400> 276
agggacccgc agctcagcta cagcacagat cagcaccatg aagctttcca cgggcctggt 60
tttctgctcc ttggtctctga gtgtcagcag ccgaagcttc tttctgttcc ttggcgaggc 120
ttttgatggg gctcggggaca tgtggagagc ctactctgac atgagagaag ccaattacat 180
cggctcagac aaatacttcc atgctcgggg gaactatgat gctgccaaaa ggggacctgg 240
gggtgctctg gccgcagaag tgatcagcaa tgccagagag aatatccaga gactcacagg 300
ccatggtgcg gaggactcgc tggccgatca ggctgn                                     336

<210> 277
<211> 460
<212> DNA
<213> Homo sapiens

<400> 277
tgcagacgga ggtcagggtc tctcttttcc tgagactgga tctgttcaaa cagcaaacgc 60
ccacagatgg cccagagggtg gtggtagtca ggggtgtgtg gtgtttttg ggttctttag 120
tgtgttttct ttcaccaggg ggtggtggtc ccagccagtt tgggtgctgac ggtgagagga 180
aattagaatc tgtttgcaaa ttgtccaacc caccacctca acatgagggg cttccatttt 240
ctgtgttttg taagggaact gtttccttca tgccgccaat ttctgtatat tagttctgat 300
ttctttttta caaatgttat catgattaaag aaaatttcca gcactttaat ggccaattaa 360
ctgagaatgt aagaaaattg atgctgtaca aggcataata agctgtttat taaccttgaa 420
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ttttttgggg                                     460

<210> 278
<211> 432
<212> DNA

```

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 46, 151, 350, 362, 383, 403, 417

<223> n = A,T,C or G

<400> 278

```
gggggtgacg acggagggtca ggtcttcttc tttcctgaga ctgganctgt tcaaacagca 60
aacgccacac gatggcccag aggtgggtgt agtcagggtg tgtgggtgtt tttagggttc 120
tttagtggtt tttctttcac ccagggggtg ntgggtcccag ccagtttgtt gctgacggtg 180
agaggaaatt agaattctgt tgcaaatgtt ccaacccacc ccttcaacat gagggggttc 240
cattttctgt gttttgttag ggaactgttt ccttcatgcc gccatgttcc tgatattagt 300
tctgatttct ttttaacaaa tgttatcatg attaaagaaa ttccagcan ttaatgggcc 360
anttaactga gaatgtgaag aantgatgct gttacaaggc aantaaggcc gttttantta 420
accctgaaaa aa 432
```

<210> 279

<211> 467

<212> DNA

<213> Homo sapiens

<400> 279

```
acgtgacgag gggccaggcg gccgtacagc agctgcaggc ggaggggcctg agccccgcct 60
tccaccagct ggacatcgac gatctgcaga gcatccgcgc cctgcgcgac ttctgcgcga 120
aggagtacgg gggcctggag gtgctggtca acaacacggg catcgccctc aagggttgctg 180
atcccacacc ctttcatatt caagctgaag tgacgatgaa aacaaatttc tctggtagcc 240
gagatgtgtg cacagaatta ctccctctaa taaaacccca agggagagtg gtgaacgtac 300
ctagcatcat gacgtcaga gcccttaaaa gctgcagccc agagctgcag cagaagtctc 360
gcagtgagac catcactgag gaggagctgg tggggctcat gaacaagttt gtggaggata 420
caaagaaggg agtgacaccg aaggagggct ggcccagcag cgcatac 467
```

<210> 280

<211> 626

<212> DNA

<213> Homo sapiens

<400> 280

```
tacggccggg acgtgacgag gggccaggcg gccgtacagc agctgcaggc ggaggggcctg 60
agccccgcct tccaccagct ggacatcgac gatctgcaga gcatccgcgc cctgcgcgac 120
ttctgcgcga aggagtacgg gggcctggag gtgctggtca acaacacggg catcgccctc 180
aagggttgctg atcccacacc ctttcatatt caagctgaag tgacgatgaa aacaaatttc 240
tctggtaccc gagatgtgtg cacagaatta ctccctctaa taaaacccca agggagagtg 300
gtgaacgtac cttagcatcat gacgtcaga gcccttaaaa gctgcagccc agagctgcag 360
cagaagtctc gcagtgagac catcactgag gaggagctgg tggggctcat gaacaagttt 420
gtggaggata caaagaaggg agtgacaccg aaggagggct ggcccagcag cgcatacggg 480
gtgacgaaga ttggcgctac cgttctgtcc aggatccacg ccaggaaact gactgagcag 540
aggaaggggg acaagatcct cctgaatgcc tgctgccagc ggtgggtgag aactgacatg 600
gcgggaccca agggccacaa gagccc 626
```

<210> 281

<211> 487

<212> DNA

<213> Homo sapiens

<400> 281

```
tggcctgttc ctacgcgagg gccctgaagct agtggataag tttttggagg atgttaaaaa 60
```

gttgtaccac	tcagaagcct	tcactgtcaa	cttcggggac	accgaagagg	ccaagaaaca	120
gatcaacgat	tacgtggaga	agggtactca	agggaaaaatt	gtggatttgg	tcaaggagct	180
tgacagagac	acagtttttg	ccctgggtgaa	ttacatcttc	tttaaaaggca	aatggggagag	240
accctttgaa	gtcaaggaca	ccgaggaaga	ggacttccac	gtggaccagg	cgaccaccgt	300
gaaggtgcct	atgatgaagc	gttttaggcac	gtttaacatc	cagcactgta	agaagctgtc	360
cagctgggtg	ctgctgatga	aatacctggg	caatgccacc	gccatctctc	tcctgcctga	420
tgaggggaaa	ctacagcacc	tggaaaatga	actcaaccac	gatatcatca	ccaagttcct	480
ggaaaat						487

<210> 282  
 <211> 345  
 <212> DNA  
 <213> Homo sapiens

<400> 282						
tggcctgttc	ctcagcagg	gcctgaagct	agtggataag	tttttggagg	atgttaaaaa	60
gttgtaccac	tcagaagcct	tcactgtcaa	cttcggggac	accgaagagg	ccaagaaaca	120
gatcaacgat	tacgtggaga	agggtactca	agggaaaaatt	gtggatttgg	tcaaggagct	180
tgacagagac	acagtttttg	ccctgggtgaa	ttacatcttc	tttaaaaggca	aatggggagag	240
accctttgaa	gtcaaggaca	ccgaggaaga	ggacttccac	gtggaccagg	cgaccaccgt	300
gaaggtgcct	atgatgaagc	gttttaggcac	gtttaacatc	cagca		345

<210> 283  
 <211> 495  
 <212> DNA  
 <213> Homo sapiens

<400> 283						
cgggcgccct	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	60
tttttttttt	aaaaaaaaat	ttttttgggt	tttttttttt	aaaaactttt	tttttttttt	120
tttttggggg	ggccaaatto	ccccccaaaa	aaaaaaaaaa	aggggggggt	ttccccccc	180
cccccttttt	tttttggggg	ggtttttttt	tttggggggg	gccccccccc	cccttttttt	240
tttttggaaa	aaaatcccc	ccttgggggg	ggtttctttt	tcocaaaagg	agtttttttt	300
cccccccccc	cggggggggg	ggggggtttt	ttttttttta	aaaaaaaaaa	ccccggaaaa	360
aaaaaaaaacc	cccccccccc	cccccccccc	aaaaaaaaaa	aaggggggaa	aaatgggggc	420
cccccttttt	tttttttttt	tttttttggg	ggggggggaa	aaaaaccccc	cccccttttt	480
tggggggggt	ttttt					495

<210> 284  
 <211> 503  
 <212> DNA  
 <213> Homo sapiens

<400> 284						
attccgttgc	tgctgagcat	gaccaagcag	ctgggtgact	tctggacacg	gatggaggag	60
ctccgccacc	aagccccgca	gcagggggca	gaggcagctc	aggccacgca	gcttgcggaa	120
ggtgccagcg	agcagccatt	gagtgcacca	gagggatttg	agagaataaa	acaaaagtat	180
gctgagttga	aggaccggtt	gggtcagagt	tcctatgctg	gtgagcaggg	tgcccggtac	240
cagagtgtag	agacagagcg	agaggagctg	tttggggaga	ccatggagat	gatggacagg	300
atgaagagaca	tggagttgga	gctgctgcgg	ggcagccagg	ccatcatgct	gcgctcagcg	360
gacctgacag	gactggagaa	gcgtgtggag	cagatccgtg	accacatcaa	tgggcgcgtg	420
ctctactatg	ccacctgcaa	gtgatgctac	agcttccagc	ccgttgcgcc	actcatctgc	480
cgcctttgct	tttgggttgg	ggc				503

<210> 285  
 <211> 581  
 <212> DNA

<213> Homo sapiens

<400> 285  
agtggcactg caggaagctc aggacaccat gcaaggcacc agccgctccc ttcggttat 60  
ccaggacagg gttgctgagg ttccagcagg actgcggcca gcagaaaagc tggtagaag 120  
catgaccaag cagctgggtg acttctggac acggatggag gagctccgcc accaagccc 180  
gcagcagggg gcagaggcag tccaggccca gcagcttgcg gaaggtgccg gcgagcaggc 240  
attgagtgcc caagagggat ttgagagaat aaaacaaaag tatgctgagt tgaaggaccg 300  
gttgggtcag agttccatgc tgggtgagca ggggtccccg atccagagtg tgaagacaga 360  
ggcagaggag ctgttttggg agaccatgga gatgatggac aggatgaaag acatggagtt 420  
ggagctctgt cggggcagcc aggccatcat gctgcgctca gcggacctga caggactgga 480  
gaagcgtgtg gagcagatcc gtgaccacat caatgggcgc gtgctctact atgccacctg 540  
caagtgatgc tacagcttcc agcccggttc cccatcatc t 581

<210> 286

<211> 598

<212> DNA

<213> Homo sapiens

<400> 286  
agtggcactg caggaagctc aggacaccat gcaaggcacc agccgctccc ttcggttat 60  
ccaggacagg gttgctgagg ttccagcagg actgcggcca gcagaaaagc tggtagaag 120  
catgaccaag cagctgggtg acttctggac acggatggag gagctccgcc accaagccc 180  
gcagcagggg gcagaggcag tccaggccca gcagcttgcg gaaggtgccg gcgagcaggc 240  
attgagtgcc caagagggat ttgagagaat aaaacaaaag tatgctgagt tgaaggaccg 300  
gttgggtcag agttccatgc tgggtgagca ggggtccccg atccagagtg tgaagacaga 360  
ggcagaggag ctgttttggg agaccatgga gatgatggac aggatgaaag acatggagtt 420  
ggagctctgt cggggcagcc aggccatcat gctgcgctca gcggacctga caggactgga 480  
gaagcgtgtg gagcagatcc gtgaccacat caatgggcgc gtgctctact atgccacctg 540  
caagtgatgc tacagcttcc agcccggttc cccatcatc tgcgcgcttt gcttttgg 598

<210> 287

<211> 316

<212> DNA

<213> Homo sapiens

<400> 287  
ctgccttca cctgcagtg gacctgcaaa atcctgacct ggtgtcactc ctgttgaagt 60  
gtggggctga tgtcaacaga gttacctacc agggctattc tccctaccag ctacacctgg 120  
gccgcccaag caccocgata cagcagcagc tgggcccagct gacactagaa aaccttcaga 180  
tgctgccaga gaggtaggat gaggagagct atgacacaga gtcagagttc acggagttca 240  
cagagacaga gctgccctat gatgactgtg tgtttggagg ccagcgtctg acgttatgag 300  
cgcaaaaggg ctgaaa 316

<210> 288

<211> 275

<212> DNA

<213> Homo sapiens

<400> 288  
atgattagga gaagtgtgtg ccacagtcga aaaatcccaa ggcccaaac tgcaccactg 60  
actgctgaaa tacagcaaaa gattttgcat ttgccaaact cttgggactg gagaatgtt 120  
catgggtatca attttgtcag tctgtttcga aaccaagcat cctgtggcag ctgctactca 180  
tttcttctta tgggtatgct agaagcgaga atccgtatcc taaccaacaa ttctcagacc 240  
ccaatctcaa gccctcagga ggttgtgtct tgtag 275

<210> 289

<211> 522  
 <212> DNA  
 <213> Homo sapiens

<400> 289  
 cagaagggaa caccagagct ttgctaataa ttagtgtggt caagagccgt ctgagcctaa 60  
 tgagtccag ctgcattagg ttaagagact ctccagagc catcgccagg tcgggaatgg 120  
 cacctctccc taggatacac agcctgcagg tccccaggac ctggatgaca ccgcctcac 180  
 tgtggcagtg tattgcctgt taattgctgc taattctaat tctgatgatg actcctaact 240  
 cattgtttac cccaagcat cagctaggct ggagtgtatt gttacaatag agcaaaagat 300  
 gagtccctgc ttcctccaga aataaaagga gctcagctgc agcgttgcat tgggcttctt 360  
 ggctcccaa ctctcccaac tcccagaatc cagaagtaag ctctgcctgt tccccttctt 420  
 ggggagaaac cagttgtcag aaggatgtat gatgaccccc tcccctccca tcttcaact 480  
 cctaagcagt cctggctttt cctcatcact cccctctaca gt 522

<210> 290  
 <211> 331  
 <212> DNA  
 <213> Homo sapiens

<400> 290  
 aacaccagag ctttgctaat aattagtgtg gtcaagagcc gtctgagcct aatgagctcc 60  
 agctgcatta ggtaagaga ctctccaga gccatcgcca ggtcttgaat gccacctctc 120  
 cctaggatac acagcctgca ggtccccagg acctggatga caccgcctcc actgtggcag 180  
 tgtattgcct gtttaattgt gctaattcta attctgatga tgactctcac tccattgttt 240  
 accccaaaag atcagctagg ctggagtgtat ttgttcaaaa tgagcaaaag atgagtcctt 300  
 gcttccctca gaaataaaag gagctcagct g 331

<210> 291  
 <211> 228  
 <212> DNA  
 <213> Homo sapiens

<400> 291  
 gagatgcata gcaggattca aaagaacatc tttgcgtttt ctaccggctc cccatcatcg 60  
 tactagggag gaagaagcgg gtgagaaaca aaactctctt ccattgtcct gccctgttct 120  
 gcggacttgt tctgaggccg aggcacctct aagatactga tggctctgca gaggaccat 180  
 tcattgcttc tgcttttgcct gctgaccctg ctggggctgg ggctggtc 228

<210> 292  
 <211> 342  
 <212> DNA  
 <213> Homo sapiens

<400> 292  
 ggagctgtcc tgcaccgtgg tggagtgaa gtacacaggc aatgccagcg cactcttcat 60  
 cctccctgat caagacaaga tggaggaagt ggaagccatg ctgctcccag agacctgaa 120  
 gcgggtggaga gactctctgg agttcagaga gataggtgag ctctacctgc caaagtcttc 180  
 catctcgagg gactataacc tgaacgacat acttctccag ctgggcatgg aggaagcctt 240  
 caccagcaag gctgacctgt cagggatcac agggggccag aacctacag tctccagggt 300  
 ggtccataag gctgtgcttg atgtatttga ggagggcaca ga 342

<210> 293  
 <211> 311  
 <212> DNA  
 <213> Homo sapiens

<400> 293  
 ggagctgtcc tgcaccgtgg tggagctgaa gtacacagcg aatgccagcg cactcttcat 60  
 cctccctgat caagacaaga tggaggaagt ggaagccatg ctgctcccag agaccctgaa 120  
 gcggtggaga cactctctgg agttcacaga gataggtgag ctctacctgc caaagttttc 180  
 catctcgagg gactataaac tgaacgacat acttctccag ctgggcattg aggaagcctt 240  
 caccagcaag gctgacctgt cagggatcac agggggccagg aacctagcag tctcccaggt 300  
 ggtccataag g 311

<210> 294  
 <211> 402  
 <212> DNA  
 <213> Homo sapiens

<400> 294  
 cggctgcgag aagacgacag aaggggaagt ggaggaagtg gaagccatgc tgcctccaga 60  
 gacctgaag cgggtggagag actctctgga gtccagagag ataggtgagc tctacctgcc 120  
 aaagttttcc atctcgaggg actataacct gaacgacgac ttctccagct gggcattgag 180  
 gaagccttca ccagcaaggc tgacctgtca gggatcacag gggccaggaa cctagcagtc 240  
 tcccaggtag tccataaggc tgtgcttgat gtatttgagg agggcacaga agcatctgct 300  
 gccacagcag tcaaaatcac cctcctttct gcattagtgg agacaaggac cattgtgcgt 360  
 ttcaacaggc ccttctgtat gatcattgtg cctacagaca cc 402

<210> 295  
 <211> 232  
 <212> DNA  
 <213> Homo sapiens

<400> 295  
 ttccatctcg agggactata acctgaacga cgactttctcc agctgggcat tgaggaagcc 60  
 ttccaccaga aggtcgacct gtcagggato acagggggcca ggaacctagc agtctcccag 120  
 gtggtccata aggtctgtct tgatgtattt gaggaggcca cagaagcatc tgtgccaca 180  
 gcagtcacaa tcaacctctt ttctgcatta gtggagacaa ggaccattgt gc 232

<210> 296  
 <211> 435  
 <212> DNA  
 <213> Homo sapiens

<400> 296  
 tgactctgac ttctgaggaa gagggccggt tgaagaagag tgcaacatcac tttgggggat 60  
 ccaaaaggag ctgcaatttt aaagtcttct gatgtcatat catttcaactg totaggctac 120  
 aacaggatct taggtggagg ttgtgcatgt tgtccttttt atctgatctg cgattaaagc 180  
 agtaatatatt taagatggac tgggaaaaaac atcaactcct gaagttagaa ataagaatgg 240  
 tttgtaaaaat ccacagctat atctgatgac tggatgggat taatcttctg tagtcttcaa 300  
 ctggttagtg tgaaatagtt ctgccacctc tgacgcacca ctgccaatgc tgtacgtact 360  
 gcatttgcgc cttgagccag gtggatggtt accgtgtggt atataactta ctggctcctt 420  
 cactgaacat gccta 435

<210> 297  
 <211> 309  
 <212> DNA  
 <213> Homo sapiens

<400> 297  
 atcatttcac tgtctaggct acaacaggat tctaagggga cgttgtgcat gttggccttt 60  
 gtatctgacg tgtgattaaa gcagtaatat ttaagatgg actgggaaaa acatcaactc 120  
 ctgaagttag aaataagaat ggtttgtaaa atccacagct gtatgctgaa gctggatggt 180



```

attaatcttg cgtagctctc aactgggttag gtgaaatagt tctgccacct ctgacgcacc 240
actgccaatg ctgtacgtac tggatttggc ccttgagcca ggtggatgtt caccggggcgt 300
gataaact                                     309

```

```

<210> 298
<211> 342
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 342
<223> n = A,T,C or G

<400> 298
atcatttgac tgtctaggct acaacaggat tctaggtgga ggttgtgcat gttgtccttt 60
ttatctgatac tgtgattaaa gcagtaatat ttaaacatgg actgggaaaa acatcaactc 120
ctgaaggttag aaataagaat ggtttgtaaa atccacagct atactctgat gctggatggg 180
attaatcttg tgtagctctc aactgggttag ttgaaatagt tctgccacct ctgacgcacc 240
actgccaatg ctgtacgtac tgcatttggc ccttgagcca ggtggatgtt taccgtgtgt 300
tatataactt cctggctcct tcaactgaaca tgctagtctc an 342

```

```

<210> 299
<211> 266
<212> DNA
<213> Homo sapiens

```

```

<400> 299
gggacagaat ggcctatctcg gaccttctga aggtgactct gacttctgag gaagacgccc 60
gcttgaagaa gagagcccat acactttggg ggatccaaaa cgagctgcga ttttcaagtc 120
ttctgatgtc atatcattcc actgtctagg ctacaacagg attctagggg gacgttgtgc 180
atgttggcct ttttatctga tctgtgacta aagcactaat attttaagat ggactgggaa 240
aaacatcaac tcttgaagt agaaat 266

```

```

<210> 300
<211> 383
<212> DNA
<213> Homo sapiens

```

```

<400> 300
ggacagaatg gaatctcaga ccttctgaag gtgactctga cttctgagga agaggcccg 60
ttgaagaaga gtgcagatac actttggggg atccaaaagg agctgcaatt ttaaagctct 120
ctgatgtcat atcatttcac tgtctaggct acaacaggat tctaggtgga ggttgtgcat 180
gttgaccttt ttatctgata tgtgattaaa gcagtaatat ttaagatgg actgggaaaa 240
acatcaactc ctgaagtttag aaataagaat ggtttgtaaa atccacagct atactctgat 300
gctggatggg attaatcttg tgtagctctc aactgggttag tgtgaaatag ttctgccacc 360
tctgacgcac cactgccaat gct 383

```

```

<210> 301
<211> 453
<212> DNA
<213> Homo sapiens

```

```

<400> 301
aaccgcttct ccgttgaaca acatactaga tggggacaga atggaatctc agaccttgtg 60
aaggtagctc tgacttctga ggaagaggcc cgtttgaaga agagtgcaga tacacttttg 120
gggatccaaa aggagctgca attttaagt cttctgatgt catatcatt cactgtctag 180

```

gctacaacag	gattctaggt	ggaggttgtg	catgttgtcc	tttttatctg	atctgtgatt	240
aaagcagtaa	tattttaaga	tggactggga	aaaacatcaa	ctcctgaagt	tagaaataag	300
aatggtttgt	aaaatccaca	gctatatcct	gatgtggat	ggtattaatc	ttgtgtagtc	360
ttcaactggt	tagtgtgaaa	tagttctgcc	acctctgacg	caccactgcc	aatgctgtac	420
gtactgcatt	tgccccttga	gccaggtgga	tgt			453

<210> 302  
 <211> 383  
 <212> DNA  
 <213> Homo sapiens

<400> 302						
ggacagaatg	gaatctcaga	ccttgtgaag	gtgaactctga	cttctgagga	agaggccogt	60
ttgaagaaga	gtgcagatac	actttggggg	atccaaaagg	agctgcaatt	ttaaagtctt	120
ctgatgtcat	atcatttcac	tgtctaggct	acaacaggat	tctaggtgga	ggttgtgcat	180
gttgaccttt	ttatctgato	tgtgattaaa	gcagtaatat	tttaagatgg	actgggaaaa	240
acatcaactc	ctgaagttag	aaataagaa	ggtttgtaaa	atccacagct	atatcctgat	300
gctggatggt	attaactctg	tgtagctctc	aaactggtag	tgtgaaatag	ttctgccacc	360
tctgacgcac	cactgccaat	gct				383

<210> 303  
 <211> 97  
 <212> DNA  
 <213> Homo sapiens

<400> 303						
gttgcccttg	agatgatcaa	agtaactggt	ggctatccat	ttgaagctta	caaaaattgt	60
tttcttaact	tagccattcc	aattgtagta	tttacag			97

<210> 304  
 <211> 442  
 <212> DNA  
 <213> Homo sapiens

<400> 304						
gccctagtta	ttataccata	ttacatcatt	actctatgta	attatctatg	aagctatgta	60
gttatattacc	cctgtattaa	gtgattttag	actgttggtta	ttttttgagt	tacagcatgt	120
gctttcaaaa	tagggagact	gtatgggtga	attaatatatt	ttttaaataa	ctgttaacat	180
gtatagagta	gggtgaaagt	ttgaaagat	aaaatatact	aaaagtatac	agacctgtaa	240
taagaaaattt	atattactat	agtcocatag	ctgctttttac	tatccacaga	gaaatgcttg	300
aaaacgtgaa	agttgaatat	atgcaattaa	aatcacggat	agtttttagc	tgtttatatt	360
atcagatcac	ctttcttttt	ctaggttgcc	ttggagatga	tcaaatgtaac	tggtggctat	420
ccattttgaag	ttacaaaaaa	tt				442

<210> 305  
 <211> 380  
 <212> DNA  
 <213> Homo sapiens

<400> 305						
gagacgtttc	cacacctggg	tgccagcgcc	ccagagggtcc	cgggacagcc	cgaggcgccg	60
cgcccgccgc	cccgagctcc	ccaagccttc	gagagcgccg	cacaactccg	gtctccaact	120
gctcttccaa	caccgcgctg	ttttggcgcc	agctcgtgtc	ccagagacgc	agttgcccca	180
gagaccgaga	cgcgcgcgct	gcgaaggacc	aatgagagcc	ccgctgctac	cgcggcgccc	240
gggtggtcgt	tcgctcttga	tactcggctc	aggccattat	gctgctggat	tggaacctcaa	300
tgacacctac	tctgggaagc	gtgaaccatt	ttctggggac	cacagggctg	atggatttga	360
ggttacctcc	agaagggagg					380

```

<210> 306
<211> 133
<212> DNA
<213> Homo sapiens

<400> 306
ccagtactgc ctctctgtgct cgtgccaaaga cacagtgaat ataaccccca gctcagcctc 60
ctggccaaagt tccgcagcgc ctccctgcac agtgagccac tcatgccaca caacgccacc 120
tatectgact ctt                                     133

<210> 307
<211> 428
<212> DNA
<213> Homo sapiens

<400> 307
tccagtactg cctctctgtgc tcgtgccaaag acacagtgaat tataacccccc agctcagcct 60
cctggccaag ttccgcagcgc cctccctgca cagtgcagcca ctcatgccac acaacgccac 120
ctatctcgac tctttccagc agcctccgtg ctctgcactc cctccctcac ccagccacgc 180
gtttctccag tccctgtgca cggccagcta cctcactcc ccaggaagtc cttctgagcc 240
agagagatccc tatacaacact cagacttttc accagtttgt tacgaggagc ccccactggt 300
gctcggtcgc ctactatgaa ctgaacaacc gagttgggga gacattccag gcttccctcc 360
gaagtgtgct catagatggg ttccacgcacc cttcaaaataa caggaacaga ttctgtcttg 420
gactttct                                     428

<210> 308
<211> 497
<212> DNA
<213> Homo sapiens

<400> 308
cggctgcgag aagacgacag aaggggggaa tgtgtctggc ccttcagcag tttctctctg 60
cagcatcagc tgggctgctt tctttgtgtg tggcccccag tgtaaaaaat acaccagctg 120
tctgtactag acaaggttac caagtgcgga attggttaat actaacagag agatttgcct 180
cattctcttt ggaataaacg gacatgctgt atagatacac gcagtagggt tgctctgtac 240
ccatgtgtac agcctaccca tgcagggact gggattcgag gacttcagag cgcattgggt 300
agaaccaaata gatagggtag gagcatgtgt tctttagggc cttgtaaggc tgtttccctt 360
tgcattcgga actgactata taattgtctt caatgaagac taattcaatt ttgcattatg 420
aggagccaaa gagagatttc agctctgtat ttgtggtatc agtttggaaa aaaaaaatct 480
gatactccat ttgatta                                     497

<210> 309
<211> 356
<212> DNA
<213> Homo sapiens

<400> 309
gggaatgtgt ctggcccttc agcagttttc cttggcagca tcagctgggc tgctttcttt 60
gtgtgtgtgct caaggtgtca aaatgacacc agctgtctgt actagacaag gttaccagat 120
gcggaattgg ttaataactaa cagagagatt tgctccattc tctttggaat aacaggacat 180
gctgtataga tacaggcagt aggtttgtgc tgtaccatgt gtaacagcct accatgcat 240
ggactgggat tcgaggactt ccaggcgcac agggtagaac caaatgatag ggtaggagca 300
tgtgtctctt aaggccctgt aaggctgttt ccttttgcac ctggaactga ctatat 356

<210> 310
<211> 348

```

```

<212> DNA
<213> Homo sapiens

<400> 310
gggaatgtgt ctggcccttc agcagtttct cttggcagca tcagctgggc tgctttcttt 60
gtgtgtgtgcc ccaggtgtgca aaatgacacc agctgtctgt actagacaag gttaccaagt 120
gcggaattgg ttaataactaa cagagagatt tgcctccattc tcttttggaa aacaggacat 180
gctgtataga tacaggcagt aggtttgtct tgtacccatg tgtacagcct acccatgcag 240
ggactcgggat tcgaggactt ccaggcgcgt agggtagaac caaatgatag ggtaggagca 300
tgtgttcttt agggccttgt aaggctgttt ccttttgcgt ctggaact 348

<210> 311
<211> 337
<212> DNA
<213> Homo sapiens

<400> 311
aagttgttgt ctgacacaca ctgctgttgt tcccctggat ttagtgaaat gccgtatgca 60
ggtggacccc caaaagtaca agggcatatt taacggattc tcagttacac ttaaaggagga 120
tggtgttctgt ggtttggcta aaggatgggc tccgacttct cttggctact ccattgcagg 180
actctgcaag tttggctttt atgaagtott taaagtcttg tatagcaata tgcctggaga 240
ggagaatact tatctctggc gcacatcact atatttggct gcctctgcca gtgctgaatt 300
ctttgtcgac attgcctctg ctccatgga agctgct 337

<210> 312
<211> 252
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 144
<223> n = A,T,C or G

<400> 312
agcccaagcc ctcagtgtaa cctgtcaaga gcatcagcag catggagctg aagaccgagc 60
cctttgatga cttcctgttc ccagtgcacac ttccagagagc tggtagttag tagcatgttg 120
agccaggcct gggtctgtgt ctctttcttc ttctctccta gtcttctcat agcattaaat 180
aatctattgg gttcattatt ggaattaacc tgggtgctgga tattttcaaa ttgtatctag 240
tgcagctgat tt 252

<210> 313
<211> 51
<212> DNA
<213> Homo sapiens

<400> 313
actccagct gcactggta cagctcttc ttcgtcttca cctacccgca g 51

<210> 314
<211> 348
<212> DNA
<213> Homo sapiens

<400> 314
atggccacag agctggagcc cctgtgcact ccggtggta cctgtactcc cagctgcact 60
gcttacacgt cttccttcgt cttcacctac ccgaggctg atcctctccc cagctgtgca 120

```

```

gctgcccacc gcaagggcag cagcagcaat gagccttctt ctgactctgt cagctcacc 180
acgctgtctg cctgtgagg gggcagggaa ggggaggcag ccggcaccca caagtgcac 240
tgcccagctt ggtgcattac agagaggaga aacacatctt ccttagaggg ttctgtaga 300
cctaggaggg accttatctg tgcgtgaaac acaccaggct gtggggccc 348

```

```

<210> 315
<211> 507
<212> DNA
<213> Homo sapiens

```

```

<400> 315
ccggtgggtc cctgtactcc cagctgcaat gcttacacgt ctctctctgt ctccacctac 60
cccgaggctg actccttccc cagctgtgca gctgcccacc gcaagggcag cagcagcaat 120
gagccttctt ctgactctgt cagctcacc acgctgctgg cctgtgagg gggcagggaa 180
ggggaggcag ccggcaccca caagtgcac tgcccagctt ggtgcattac agagaggaga 240
aacacatctt ccttagaggg ttctgtaga ccttagggag accttatctg tgcgtgaaac 300
acaccaggct gtgggacctc aggaactgaa agcatccatg tgtggacctc agtccttacc 360
tcttcgggag atgtagcaaa acgcatggag tgtgtattgt tccagtgac acttcagaga 420
gctggtagtt agtagcatgt tgagccaggc ctgggtctgt gtctcttttc tctttctctt 480
tagcttcttc atagcattaa ctaatctt
507

```

```

<210> 316
<211> 239
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 223
<223> n = A,T,C or G

```

```

<400> 316
agactccaag cctactctgg aggcacggag ggtggcgagg caggctcagc tggaagctca 60
gaaagccacg caggacttcc agaggggcac agaggtgctc cgcgccacca aggagaccat 120
ctccctggcc gagcagcgcc tgctggagga tgacaagcgg cagttcagct ccgctctgca 180
ggagatgctg aatcacgcga cttagagggt catggaggcg ganagaccaa gaccaggag 239

```

```

<210> 317
<211> 313
<212> DNA
<213> Homo sapiens

```

```

<400> 317
catcagtgat aggggatgatt cacaaacaca aagctggtct ttccaaaaat ggaagaaaaa 60
agatgcaatt gatcccttac tattcaagta taaagtgcac ccactaaaaa aagaattaca 120
tgagtctgct attgttaaag caacacaaat cagccggaga aaacacctat ttctctgtga 180
taaaactaaag ctttttctga agcaaacact ggaaccacaa gatggagtca ttaaaataaa 240
ggcatcatct ctttcaacgg ataaaatagc cgaacaagat tttttcttat ttcttccctg 300
atgattccac ccc
313

```

```

<210> 318
<211> 574
<212> DNA
<213> Homo sapiens

```

```

<400> 318
aaataacatc aacagaacag cttcactttg ggccaacat ttgaaaaact ttttataaaa 60

```

```

aattgtttga tatttcttaa tgtctgctct gagccttaaa acacagattg aagaagaaaa 120
gaaagaaaaa acttaaatat ttatttctat gctttgttgc ctctgagaat aatgacaatt 180
tatgaatttg tgtttcaaat tgataaaata ttttaggtaca aataacaaga ctaataatat 240
tttcttattt aaaaaaagca tgggaagatt tttattttatc aaaatataga ggaagtgtag 300
acaaaatgga tataaatgaa aattaccatg ttgtaaaacc ttgaaaatca gattctaaact 360
ggatttgtat gcaactaagt atttttctga acacctatgc aggtcttatt tacagtagtt 420
actaagggaa gccacaaagc attacacaac gttttctca agaaaaaggt acaaaacaca 480
accgagagga gtatacagtt gaaaacattt ttgttttgat tggaaaggcag attattttat 540
attagtatta aaaatcaaac cctatgtttc ttcc
574

```

```

<210> 319
<211> 518
<212> DNA
<213> Homo sapiens

```

```

<400> 319
gaagggaat aacatcaaca gaacaacttc actttgggccc aaacatttga aaaacttttt 60
ataaaaaatt gtttgatatt tcttaattgc tgcctctgagc cttaaaaaac agattgaaga 120
agaaaaaaga gaaaaaacctt aaatatattat ttctatgctt tgttgccctc gagaataatg 180
acaattttatg aattttgtgtt tcaaatgtat aaaatattta ggtacaaaaa acaagactaa 240
taattatttct ttatttataaaa aaagcatggg agagattttta ttatcaaaa tatagaggaa 300
atgtagacaa aatggatata aatgaaaatt accatgttgtt aaaaccttga aaatcagatt 360
ctaactggat ttgtatgcaa ctaagtattt ttctgaacac ctatgcaggt ctattttaca 420
gtagtattact aggggaacaca caaagaatta cacaacgttt tcctcaagaa aatgggtaca 480
aacacaaccg agggagcgtat acagttgaaa acattttt
518

```

```

<210> 320
<211> 353
<212> DNA
<213> Homo sapiens

```

```

<400> 320
aaataacatc aacagaacaa cttcactttg ggcaaaacat ttaaaaaact ttttataaaa 60
aaatgtttga tatttcttaa tgtctgctct gagccttaca acacagattg aagaagaaaa 120
gaaagaacaa acttagatat ttatttctat gctttgttgc ctctgagaat atgacaatt 180
tatgaatttg agtttcaaat tgataaaata ttttaggtact aataacaaga ctaataatat 240
tttcttattt aaaaaaagca tgggaagatt tttattttatc aaaatataca ggaagtgtag 300
acaaaatgga tataaatgaa aattaccatg ttgtaaaacc ttgaaaatca gag
353

```

```

<210> 321
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<400> 321
gacctgcaca cagagactcc ctctctgggt cctggcacca tggcccccctg aagagctggc 60
cctgggtcacc ctctctctgg gggcttctct gcagcacatc cagcgagctc gagggaacaa 120
ttgtggccggg gagtgtctgc tggagtactt caagggagcc attcccctta gaaagctgaa 180
gacgtggtacg cagacatctg aggaactgctc cagggatgcc atcgtttttg taactgtgca 240
gggcaggggcc atctgttcgg accccaacaa caagagagtg aagaatgcag ttaaataacct 300
gcaaacctt gagaggtctt gaagcctcct caccocagac tctgactgt ctcccgaggc 360
tacctgggac ctccaccggt ggtgttcacc gccccaccc t
401

```

```

<210> 322
<211> 547
<212> DNA
<213> Homo sapiens

```

<400> 322  
gacctgcaca cagagactcc ctctctgggct cctggcacca tggccccact gaagatgctg 60  
gccctgggtca cctctctctt gggggctttct ctgcagcaca tccacgcagc tcgaggggacc 120  
aatgtggggcc gggagtgctg cctggagtag ttcaaggagg ccattccctc tagaagactg 180  
aagacgtgtgt accagacatc tgaggactgc tccagggatg ccactcgttt tgttaactgtg 240  
cagggcagggg ccatctgttc ggaccccaac aacaagagag tgaagaatgc agttaaatc 300  
ctgcaaaagcc ttgagaggtc ttgaagcctc ctacccccag actcctgact gtctcccggg 360  
actacctggg accctcaacc ttggtgttca cgcgcccccac cctgagcgcc tgggtccagg 420  
ggaggccttc caggggacga gaagagccac agtgaggggag atcccatccc cttgtctgaa 480  
ctggagccat gggcacaag ggcccagatt aaagtcttta tctcaaaaa aaaaaaaaaa 540  
aaaaaaa 547

<210> 323  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 323  
ctgagcagag ggacctgcac acagagactc cctctctgggc tcttggcacc atggcccccac 60  
tgaagatgct ggccctggct accctctctc tgggggcttc tctgcagcac atccacgcag 120  
ctcgaggggac caatgtgggc cgggagtgct gcttggagta cttcaaggga gccattccccc 180  
ttgaaaagct gaagacgtgg taccagacat ctgaggactg cccagggat gccactcgttt 240  
ttgtaactgt gcagggcagg gccatctgtt cggaccccaa caa 283

<210> 324  
<211> 160  
<212> DNA  
<213> Homo sapiens

<400> 324  
gcggtgacga cggggaccat ttaccatca cccccaccc tgagagcaac caggggcatcc 60  
tgacaaccag gaagggtttg gattttgagg ccaaaaaacca gcacaccctc tacgttgag 120  
tgaccaacga ggcccccttt gtgctgaagc tccccacccc 160

<210> 325  
<211> 300  
<212> DNA  
<213> Homo sapiens

<400> 325  
tttttttttg gggccaatto tttattttta ctaaatagg aacgcagctt ttacagaaca 60  
ataaacacaa gggacggggc cccccagga tctaacagct tttcagggaac ctatgttgca 120  
agctcaaaaag taatccaacta acgaaccaag tcaaaactcca gtttttaata aaaaggggct 180  
gggggaggtt gtcaaacccc ttccaatata aatccccaat ccgagggccca ccaaatgaaa 240  
aagcaccaaa aatggaagga aaactttcaa aaattctgca aaaaatatgc cccctttttt 300

<210> 326  
<211> 394  
<212> DNA  
<213> Homo sapiens

<400> 326  
gtctattctt ttatttttact aaattaggaa cgcagcattt acagaacaat aaacacaagt 60  
gacgtggcca ccccaggatc taacagctct tcagttagct atgttgcaag ctcaagaagta 120  
atccactaac gaaccaagtc agactccagt tcttcaccaa aagtgctggtg tggaggttgt 180

```

cagacgcctt ccaatataga tccccaatcc gatggccagc aaatgagaga gcagcagaga 240
tggaaggaaa acttccagaa attctgcaga gaatatgcc cttttcttca tgacgctcgt 300
gttcccccat gctgaagggt gccgtgcgct tccggtgttt aaagaagaac ccttgggggg 360
aatatttccc ggccatttga ccaatcccat tcca
394

```

```

<210> 327
<211> 524
<212> DNA
<213> Homo sapiens

```

```

<400> 327
gtctattctt ttattttact aaattaggaa cgcagcattt acagaacaaa taaacacaag 60
tgaagtgccc accccaggat ctaacagctc ttcagtgagc tatgttgcaa gtcacagaagt 120
aatccactaa cgaaccaagt cagactccag ttcttcatca aaaggtgctg gtggagggtg 180
tcagacgcct tccaatatag atccccaatc cgaatggccg caaatgagag agcagcagag 240
atggaaggaa aacttttcaga aattctgcag agaatatgcc cctttcttcc atgacgctcg 300
tgttcctcat gctgagggtg ccgtgcgctt ccggtgttta aagaagaacc ctggggggga 360
atatttccgg ccgacttgac caatcccata tccatctgat tttttcttca gaagctttca 420
cttcttctct ccttcaatat cactccctca actgtgactg ttttcccccc aatgctatgg 480
tttctgttca aaaccccggt ggttctgttg ggtcgtact ccgt
524

```

```

<210> 328
<211> 55
<212> DNA
<213> Homo sapiens

```

```

<400> 328
ggcgcgcctt tttttttttt ttttttggg ggcgtttttt gattttttaa attgg 55

```

```

<210> 329
<211> 463
<212> DNA
<213> Homo sapiens

```

```

<400> 329
tcactatagg gaaagctggt acgcctgcag gtaccggctc ggaattcccg ggtcgaccca 60
cgcgtccgcc gcccccagga cctgtgaaga aaaccatctt gtgaggggct gcttgagactg 120
gtctggcagg ttgggctctg atggggaggc tctagcatct ctcatagggt caacctgaga 180
gtgggggagc taagccatga ggtaggggca ggcaagagag aggattcaga cgtctgggga 240
cgcagttcct agtctcaacc tccagccacc tgccccagct cgacggcact ggccagattc 300
cccctctgct ctgcagctcg gtttcttttt ctagaatgga aatagtggag gccaatgccc 360
aggggtggag ggaggagggc gttcatagaa gaacacacat gcggggcacct tcacgtgtgt 420
tggccacttg tcagaactta ataaaagta actcatttgc tgg
463

```

```

<210> 330
<211> 274
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 144, 218, 268
<223> n = A,T,C or G

```

```

<400> 330
ccgccccga gaccatgtga agaaaacat cttgtgaggg gctgcctgga ctggtctggc 60
agggtgggcc tggatgggga ggctctagca tctctcatag gtgcaacctg agagtggggg 120

```



```

agctaagcca tgaggtaggg gcangcaaga gagaggattc agacgctctg ggagccagtt 180
cctagtcttc aactccagcc acctgcccca gctcgacncc actggggccag ttccccctct 240
gctctgcagt cggtttctct ttctagantg gaaa 274

```

```

<210> 331
<211> 232
<212> DNA
<213> Homo sapiens

```

```

<400> 331
cggctgtgag aatacagacag aagggtccgg ctgcgagaag acgacagaag ggggatctca 60
gcggggagacc acgtctcttg caactgtggtc ttgcatgga cccacgggct gtggggagctt 120
gggggacagt aatcaagtaa tcccccttcc cagaatgcac taaccacctc cctgacacct 180
acgctggggc aggtcccccac gtgtgcaagc tcagtattca tgatgggtggg gg 232

```

```

<210> 332
<211> 321
<212> DNA
<213> Homo sapiens

```

```

<400> 332
gttgtgttga gatccagtcg agttgtgatt tctgtggatc ccagcttggg tccaggaatt 60
ttgtgtgatt ggttttaaat cagttttcaa tcttcgacag ctgggctgga acgtgaactc 120
agtagctgaa cctgtctgac cgggtcacgt tcttggatcc tcagaactct ttgtctctgt 180
cgggggtggg gtgggaacct tcgtgaggag cgcacagctg gtaaatgccca cgactccgta 240
attcttattc ggtgggaact tgcttccctc tgggagctgg ctgcttttgt ttgtgtctaa 300
ccttctcgcc aatcggttaa g 321

```

```

<210> 333
<211> 344
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 265, 267, 272, 337
<223> n = A,T,C or G

```

```

<400> 333
gtctatttct tcaattttgt gataatttct gcatttaaat gtctgtgctt taaatggtaa 60
cgctacggcc ccagggtcaact gcgaggcaact taccatgtag atacgggctc aaaagtcacc 120
tctcaagagc ctacgtcaat cactcaggaa ttccgcctcc tcaatacttc ctgtctcatt 180
ttatcttctc tctagcagct gtctgaaatt ggttcgtctg ttttcttgtt tatgggtattc 240
tcaagccctt gacagaccgg ctagnngngt tntcccgctg atcttcagcc tggcacatta 300
tggacactta aatactacgt attgatctaa tattganggg ttaa 344

```

```

<210> 334
<211> 405
<212> DNA
<213> Homo sapiens

```

```

<400> 334
ggcacgaggg atgaagggtg ctgctcattt tcattagatg tatgtgaagg cacagtgaag 60
atggaaatgt tcttggagct acttccctca aatgtatctc tagtcacctc agtgcacag 120
ctgggagggg gcggtgttaa gatttttttt gctacaaaaga ggagggtgga atggtagatc 180
cacccttatg cttctcagtt tagcataacc tcttatggat ttctatcaaa ttacagctgt 240
tggtcactgg aaagagccct ttccttctcc ttttcttact ctccccctcat ggggttcccc 300

```

tcttaaaggaggagcttt taatttacac ttaccacctc atttgccttt ttggaggcca 360  
tgccatataa gcgggactac cgagttaatc tccctttttac aaaag 405

<210> 335  
<211> 227  
<212> DNA  
<213> Homo sapiens

<400> 335  
ggatgaacta ttcagatgct atcggttggc taaaagaaca tgatgtaaag aaagaagatg 60  
gaacttttcta tgaatttggga gaagatatcc cagaagctcc tgagagactcg atgacagaca 120  
ccattaatga accaatcttg ctgtgtcgat ttctgttggga gatcaagctc ttctacatgc 180  
agcgatgtcc tgaggattcc cgttactact aatctgtcga cgtgtttg 227

<210> 336  
<211> 521  
<212> DNA  
<213> Homo sapiens

<400> 336  
tcgaattcgg atgaactatt cagatgctat cgttttggcta aaagaacatg atgtaaagaa 60  
agaagatgga actttctatg aatttggaga agatatccca gaagctcctg agagactgat 120  
gacagacacc attaatgaac caatcttgct gtgtcgattt cctgtggaga tcaagctcct 180  
ctacatgcag cgaatgtcctg aggatcccg tttactgaa tctgtcgacg tgttgatgcc 240  
caatgtttggt gagattgtgg gaggtcgaat gcgtatcttt gatagtgaag aaatactggc 300  
aggttataaa agggaaggga ttgacccccc tccctattac tggatatacg atcagagaaa 360  
atacgtgtaca tgtccccatg gaggatatgg cttgggcttg gaacgattct taacgtggat 420  
tctgaatagg tatcacatcc gagacgtgtg cttataccct cgatttggcc agcgttgcac 480  
gccataacca ttttctccag aagcgtggag gaaagattat g 521

<210> 337  
<211> 325  
<212> DNA  
<213> Homo sapiens

<400> 337  
ggactttccc gatgccagg caggagtctt tctcggtgac tactatcgct gtcagtctcg 60  
gtcgtggcaa gcaaggaggc aaggcccgcg ccaaggccaa gtcgcgctcg tcccgcgcg 120  
gccttcagtt cccggttagg cgagtgcact gcttgcgtcg caaaggcaac tacgcgagc 180  
gagtgggggc cggcgcgccc gtctacatgg ctgcgttctc cgagtatctg accgctgaga 240  
tcttgaggag gggcgggcaac gcggctcggg acaacaagaa gacgcgcac atccctcgtc 300  
acctccagct ggccatcccg aacga 325

<210> 338  
<211> 401  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 264  
<223> n = A,T,C or G

<400> 338  
cgttgctgtc ggttttagga aacctggcat ggtgctttca ggtctggggc ttttagagcc 60  
cccgtgtgg cttacaaatt ctacagcata cagagcaggc cagctcagg cccgcatgc 120  
gggccacca tttctggaaa ccacgtggtg tccctgcgaa tggggcgatc aagtcagag 180

```

ccggggcact ttcagagttt gaaggttaact gagagcagat ggtccctccat ttcaactcca 240
gaagtggggc tctggggagg atgntctaac cctccctggc atgtcacaac cagggtctgg 300
ctggaggatc cctccatccg gctcctgtca tcccctacac ttgggcttag caagagggtg 360
aataaccact tgtgtgtctca ttactgttgg gaggaacaaa g 401

```

```

<210> 339
<211> 460
<212> DNA
<213> Homo sapiens

```

```

<400> 339
catcgccggc accaagtctt ggaaccacg tgggtgcctt ggaatgggg cgatcaagtc 60
cagagccggg gcaacttccg agtttgaagg taactgagag cagatggctc tccatttcaa 120
ctccagaagt ggggctctgg gagggatggt ctaggccctcc ctggcatgtc agaaccaggc 180
tctgcctgga ggatccctcc atccggctcc tgcctatccc tacactttgg ccaagcaaga 240
agtggttaga coacttgggt gctccttctt tctggaggac acacagtctc agtccagatg 300
ccttcctgtc tttctggccc tttctggacc agatcctact cttcctttct aaatctgaga 360
tctccctcca ggggaatccg ctgcagagga cagagctggc tgtcttcccc cacccttaac 420
ctggcttatt cccaactgct ctgccactg tgaaaccact 460

```

```

<210> 340
<211> 496
<212> DNA
<213> Homo sapiens

```

```

<400> 340
tttttttttt tttttttttt tttttgggat tcttaaatat agatgtattt ttttcatctc 60
atctccggac acactccaat cacacccctc ctgccctccc ctctcaactg caaaccaagc 120
ggtgcagaca cagcacagca cacatgaggg gccctccctt tcaccaaaag tgaaggcagg 180
gcacagtttg gggatggagg agcctcgagg taatgtgggg ggttctagaa ccagtgacc 240
tcagttctgg atcatgtgaa agggatcagt atgcagtaac gtggttaagg ttccagatcta 300
gaagccagga cctagaaact agtggtttca cagtggggcag agcagttggg aataagccag 360
gttaggggtg ggggaagaca gccagctctg tctctgcaag gccgattccc tggagggaga 420
tctcagattt agaaaaggag agtaggatct ggtccagaaa gggccagaaa gacagggaag 480
catctggagt gagact 496

```

```

<210> 341
<211> 283
<212> DNA
<213> Homo sapiens

```

```

<400> 341
tttttttttt tttttttttt ttttttttag gatttgaata cattttattg gacaagaatg 60
ctgttataaa tattcataag caaaggccat ctttttatct aggaattgtc aaagagaaga 120
ttccaaattg gaaggatata tcttttgtaa aatctgccac caattcctgc tttagaata 180
agcacctatt gtaaaatttc tactaacatt ataatgggtc acagcacatg ccacttgata 240
caatccaaac ttgaaatgt ttgacttctc agtgggctgt ccc 283

```

```

<210> 342
<211> 335
<212> DNA
<213> Homo sapiens

```

```

<400> 342
tgtcgggcag caggcgagc ccagcctcga aatgcagaac gacgcggcg agttcgtgga 60
cctgtactgt ccgccaatg gctccgctag caatgcgcat atcggtgcga aggaccaagc 120
atccatccag atgacagtgg ccgaggttga caaggtcaca ggcaggttta atggccagtt 180

```

taaaacttat	gctatctgcg	gggccattcg	taggatgggt	gagtcagatg	attccattct	240
ccgattggcc	aaggccgatg	gcctcgtctc	aaagaacttt	tgactggaga	gaatcacaga	300
tgtggaatat	ttgtcataaa	taaataatga	aaacc			335

<210> 343  
 <211> 75  
 <212> DNA  
 <213> Homo sapiens

<400> 343	
gggtagagtt	cttaaatcga gatctggagg tagatggacg ctttctaacc ctccagatct 60
gggacactgc	agggc 75

<210> 344  
 <211> 611  
 <212> DNA  
 <213> Homo sapiens

<400> 344	
gccggggggc	agcggggggc gcgagcggca gctgtcagcg caccgaggtc caagccgcac 60
ttgtctcccc	attgaggacg aggaggaagc agggagcagtg acgggtgactc taaggagccg 120
gattcccgcc	acgcagagct gacctgcctg gcaccccgcg cctctccctg ttctcttccc 180
attgtgttgg	caccttaaaa agaaaagaata aaacaacaac aggaaaaaaa ggaataatt 240
taaaattgtg	caaaaaaccca ctgggttctc ttggttacaa actccttccc ttctgggtgc 300
acaaaaatga	gtgggaaatc cctgctctta aagggtcattc tcttgggtga tgggtggagt 360
gggaaaaagt	cgcttatgaa ccgttacgta accaacaat ttgactccca ggcttttcac 420
accatagggg	tagagttctt aaatcgagat ctggagggtag atggacgctt tgtaaccctc 480
cagatctggg	acactgcagc gcagggaactg ttcaagagcc ttaggacacc cttctacagg 540
ggagcagact	gctgcctctt gaccttcagc gtggatgacg ggcagagctt cgagaatctt 600
ggttaactgg	c a 611

<210> 345  
 <211> 441  
 <212> DNA  
 <213> Homo sapiens

<400> 345	
ggcctttgca	agcctcacgc gcgatgcaag gatagtcacg aacaggggcc gggtggagtg 60
ccagagccac	cggtctgactg tggaggaccc ggtcactgtg gactacatca cccgtacat 120
cgccagctct	aagcagcgtt atacgcatac cactggggcg aggcgtttgg catctctgcc 180
ctcatcgttg	gtttctactt tgatggcact cctaggctct atcagactga cccctctgtc 240
acataccatg	cctgggaagg caatgccata cgcgggggtg ccaactcagt gcgtgagttc 300
ctggagaaga	actatactga cgaagccatt gtaacatag atctgaccat taagctgggtg 360
atcaacgcac	tcctggaagt ggttcaactca ggtggcaaaa acattgaaact tgctgtcactg 420
aggcgagatc	aatccctcaa g 441

<210> 346  
 <211> 323  
 <212> DNA  
 <213> Homo sapiens

<400> 346	
ggcctttgca	ggcctcacgc cggatgcaag gatagtcacg aacaggggcc gggtggagtg 60
ccagagccac	cggtctgactg tggaggaccc ggtcactgtg gactacatca cccgtacat 120
cgcagctctg	aagcagcgtt atacgcacag caatggggcg aggcgtttgg catctctgcc 180
ctcatcgttg	gtttcgaact tgatggcact cctaggctct atcagactga cccctcggtc 240
acataccatg	cctggaaggc caatgccata tgccgggggtg ccaagtcagt gcgtgagttc 300

ctggagaaga actatactga cga

323

<210> 347

<211> 567

<212> DNA

<213> Homo sapiens

<400> 347

```
ccagcggcct cttccccctt ctggtgctgc ttgcccctgg aactctggca ccttgggctg 60
tgggaaggctc tggaaagtcc ttcaaagctg gagtctgtcc tcctaagaaa tctgcccagt 120
gocctagata caagaaacct gagtgcoga gtgactggca gtgtccaggg aagaagaaat 180
gttgtctctga cacttgtggc atcaaagcc tggactctgt tgacacccca aacccaacaa 240
ggagggaagcc tgggaagtgc ccagtgaact atggccaatg tttgatgctt aaccccccca 300
atttctgtga gatggatggc cagtgcgaagc gtgacttgaa gtgttgcatt ggcattgtgtg 360
ggaaatcctg cgtttccccct gtgaaagctt gattctctgcc atatggagga ggctctggag 420
tctgtctctg tgtggtccag gtccctttcca ccttgagact tggctccacc actgatattcc 480
tcctttgggg aaaggtcttg cacacagcag gctttcaaga agtgccagtt gatcaatgaa 540
taaataaacg agcctatttc tctttgc 567
```

<210> 348

<211> 314

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 48

<223> n = A,T,C or G

<400> 348

```
atgaagtcca ggggctcttt ccccttctgt gtgctgcttg ccttggnac tctggcacct 60
tgggctgtgg aaggctcttg aaagtccctc aaagtctggag tctgtccctc taagaaatct 120
gccagctgcc ttatagatacaa gaaacctgag tgccagagtg actggcagtg tccagggaag 180
aagagatgtt gtctcagacac ttgtggcattc aaatgccttg atcctgttga ccccccaaac 240
ccaacaagga ggaagccttg gaagtgccta gtgacttatg gccaatgttt gatgcttaac 300
cccccaatt tctgc 314
```

<210> 349

<211> 611

<212> DNA

<213> Homo sapiens

<400> 349

```
ggctctgtctc tgcagcacac ccgtgggtga cccctcaccc cagaagcagc agtggcagct 60
tgggaaatgt gaggaaagga aggagggaga gacggggagg aggagagaga ggagaaggga 120
ggcagggggag gggcagcaga accaaggcaa atatttcagc tgggctatac cctctctccc 180
atccctgttta tagaagctta gagagccagc cagcaatgga accctctggt tctgtgcgca 240
atcgccacca gtatcaattg tgtgagcttg gttgcgagtg cacgcgtgcg tagtaccga 300
gagtataatc agatctctat ctcttagcaa aggtgaaatg cagatgataa tggcgccctct 360
gggcaaaaga ggcttgtatt ttgcacattt tataaaaaact tgagagaatg agatttctgc 420
ttgtatattt ctaaaaaagag gaaggagccc aaaccatcct ctccctacca ctcccatccc 480
tgtgagccct accctacccc tctgccccta gccaaaggag gtgaatttat agatctaact 540
ttcataggca aaacaaaagc ttcgagctgt tgcgtgtgtg agtctgttgt gtggatgtgc 600
gtgtgtggtc c 611
```

<210> 350

<211> 370

```

<212> DNA
<213> Homo sapiens

<400> 350
tggctggatg ggcttggact gtggtcctga aagcagcaag aagtatgtg aggctgtcac 60
tcgggctaag cagatttgtt ggaatgggtc tgtgggggta tttgaatgg aagcttttgc 120
ccggggaacc aaagctctca tggatgaggt ggtgaaagcc acttctaggg gctgcatacc 180
catcataggt ggtggagaca ctgccacttg ctgtgccaaa tggaaacagg aggataaaagt 240
cagccatgtg agcactgggg gtggtgccag tttggagctc ctggaaggta aagtccttcc 300
tggggtggat gctctcagca atatttagta ctttctgcc ttttagttcc tgtgcacagc 360
cctaagtca 370

<210> 351
<211> 177
<212> DNA
<213> Homo sapiens

<400> 351
gggctgcatac accatcatag gtggtggaga cactgccact tgctgtgcc aatggaacac 60
ggagagataaa gtcagccatg tgagcactgg ggtgtgtgcc agtttggagg tctctggaagg 120
gaaagtcctt cctgggggtg atgctctcag caatatattg tactttctcc cctttta 177

<210> 352
<211> 204
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 53, 55, 76, 86, 137
<223> n = A,T,C or G

<400> 352
atggctttta ccttccctaa ggtgctcaac aacatggaga ttgggcactt tcnncnggtg 60
atgaagaagg aagccnagat ttgtcnaaga cctaattgtc aaaagctgag aagaatgggt 120
tgaagattac cttgccttgt tgacttgtca ctgctgacaa gtttgatgag aatgcccaag 180
actggccagg ccactgggtg cttc 204

<210> 353
<211> 489
<212> DNA
<213> Homo sapiens

<400> 353
cttttacctt ccttaagggt ctcaggacat ggagattggc acttctctgt ttgatgaaga 60
gggagccaag attgtcaaa acctaattgt caaagctgag aagaatgggt tgaagattac 120
cttgccctgtt gactttgtca ctgctgacaa gtttgatgag aatgccaaag ctggccaagc 180
cactgtggct tctggcatac ctgctggctg gatgggcttg gactgtggct ctgaaagcag 240
caagaagtat gctgaggctg tcactcgggg taagcagatt gtgtggaatg gtccgtgtgg 300
ggtatttgaa tgggaagctt ttgccggggg aaccaaagct ctcattggat aggtgggtgaa 360
agccactctc aggggctgca tcacatcat aggtgtgtgga gacactgcca cttgctgtgc 420
caaatggaac acggaggata aagtcagcca tgtgagcact ggggggtggt ccagtttggg 480
gctcctgga 489

<210> 354
<211> 885
<212> DNA

```

<213> Homo sapiens

<400> 354  
tttttttttt toacgggttt aatggacact tttattgttt acttaatagga toatcaattt 60  
tgtctacta cctacaaatg gaatttcaat ttgtttccat gctgagtagt gaacacagtga 120  
caaagcta atcataaacc tacatcaaaa gagaactaag ctaacactgc taactttctt 180  
tttaacaggc aaaatataaa tatatgcact ctaaaatgca caatggttta gtcactaaaa 240  
aattcaaatg ggaatcttgaa gaatgtatgc aaatccaggg tgcagtgaat atgagctgag 300  
atgctgtgca actgtttaag gggtccctggc actgcatctc ttggccacta gctgaatctt 360  
gacatggaag gttttagcta atgcccaggg gaaatgcaaa aaatgcta atgacattag 420  
gcctgtgcac aggaactaaa aggcaggaaa gtactaaata ttgctgagag catccacccc 480  
aggaaggact ttaccttcca ggagctccaa actggcaccac ccccccactg toacattggt 540  
gaatttatcc tccgtgttcc atttggcaca gcaagtggca gtgtctccac cactatgat 600  
ggtagtcag ccccccataa gtggctttca ccacotcact catgagagct ttggttcccc 660  
gggcaaaagc ttcccattca aataccccca caggaccatt ccacacaact tgcctaaccc 720  
gagtgacagc ctacagatcc ttcttctgtg ttccaggacc acagtccaag ccccatccca 780  
ccagcaggtg tgcaagaagg cccagtggtg ttgcccagct tggcattttc catcaacttg 840  
tcagcagtgga caaagctaac cggaaggaaa tcttcacacc atctt 885

<210> 355

<211> 434

<212> DNA

<213> Homo sapiens

<400> 355  
cggctgcgag aagacgacag aagggggggg tgggtgctat accttgactt catttatatg 60  
aatttccact ttattaaaaa atagaaaaa aaatcccggt gcttgacgta gaggataggt 120  
acattctatg ttacagaaa atatagccat gattgaaatc aaatagtaaa ggctgttctg 180  
gctttttatc ttcttagctc atcttaaaaa agcagtcac ttggatgcag tgcgtctgaa 240  
gtgctaatac gttgtaacaa tagcacaatc cgaacttagg attttttct tctcttctgt 300  
tttctgattt ttgatcaatt cttaaatatt ggaagcctat aatacagttt tctattctgt 360  
gagataaaaa ttaaatggat cactgatatt ttagtcattc tgcttctcat ctaaatatatt 420  
ccattattctg tatt 434

<210> 356

<211> 318

<212> DNA

<213> Homo sapiens

<400> 356  
gggagtgagg gctatacctt gacttcattt atatgaattt ccactttatt aaataataga 60  
aaagaaaatc ccggtgcttg cagtagagtg ataggacatt ctatgcttac agaaaatata 120  
gccatgattg aaatcaaaa gtaaggctg ttctggcttt ttatctcttt agctcatctt 180  
aaataagcag tacacttgga tgcagtgctg ctgaagtgtc aatcagttgt aacaatagca 240  
caaatcgaac ttaggatttg cttctctctc tctgtgttgc gatttttgat caattcttta 300  
attttggaag cctataat 318

<210> 357

<211> 231

<212> DNA

<213> Homo sapiens

<400> 357  
cggctgcgag aagacaacag aagggggctc ccgctcgga tctcgtccg gatctcgtc 60  
cgggtcccgc agtgggtccc ggagagggaag ctttgacgc acaaggaaatt ctctcactc 120  
ttattctcac tcatttagca gtatgtctat tgggcactat tagtcagttg ggagtggtg 180  
ctataccttg acttcattta tatgaatttc cactttatta aataatagaa a 231

```

<210> 358
<211> 446
<212> DNA
<213> Homo sapiens

<400> 358
atttgcgtgta tgccgagaat ggaaaaattg gaccacctaa actggatatac agaaaggagg 60
agaagcaaat catgattgac atatttcacc ctccagtttt tgtaaatgga gacgagcagg 120
aagtcgatta tgatcccgaa actacctgtt acattagggt gtacaatgtg tatgtgagaa 180
tgaacgggaag tgagatccag tataaaatac tcacgcagaa ggaagatgat tgtgacgaga 240
ttcagtgcca gttagcgatt ccagtatcct cactgaatto tcagtagtgt gtttcagcag 300
aaggagtcctt acatgtgtgg ggtgttataa ctgaaaagtc aaaagaagtt tgtattacca 360
ttttcaatag cagtataaaa ggttctcttt ggattccagt tgttgctgct ttactactct 420
ttctagtctc tagcctggta ttcatac 446

<210> 359
<211> 209
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 19, 185, 193
<223> n = A,T,C or G

<400> 359
gagaatttgc tgtatgcgnc agatggaaaa attggaccac ctaaaactgga tatcagaaaag 60
gaggagaaagc aaatcatgat tgacatatc cacccttcaa gtttttgtaa atggagacga 120
gcaggaaagtc gattatgata ccgaaaactac ctgttacatt aggggtgtaca atgtgtatgt 180
gagantgaac ggnagtgaga tccagtata 209

<210> 360
<211> 521
<212> DNA
<213> Homo sapiens

<400> 360
tgctgtcggt gactactgaa gaaatatctc tgacgtggtc ccgggcagcc atctgactcc 60
aatagagaga gagagttctt caccctttaag tagtaaccag tctgaacctg gcagcatcgc 120
tttaaaactcg tatcaactcc gaaattgttc tgagagtgat cactccagaa atggttttga 180
tactgattcc agctgtctgg aatcacatag ctcccttatc gactcagaat ttcccccaaa 240
taataaaggt gaaataaaaa cagaaggaca agagctcata accgtataaa aagccccccac 300
ctccttttgg tatgataaac cacatgtgct agtggatcta cttgtggatg atagcggtaa 360
agagtccttg attggttata gaccaacaga agattccaaa gaattttcat gagatcagct 420
aagttgcacc aactttgaag tctgattttc ctggacagtt ttctgcttta atttcatgaa 480
aagattatga tctcagaaa tgtatcttag ttggtatcaa c 521

<210> 361
<211> 522
<212> DNA
<213> Homo sapiens

<400> 361
tggccctcga ggccaagaat tcggcactag gggagaggag cttgaatttc tgacacacat 60
aacatgtaaa aagtattttg catttcataa ggatttgggg tggggttaac gcaagggttag 120
tctgttttaa aaaatgtttt catatacagac cacataactg gtggttccta atgggaatac 180

```



```

ttgaccagg cagaaactag aaaagtagca agtaggaaac ttccatttct ctcccctaaa 240
caaccctcta aggcactgtg agctggagac aggagagggt ttgcccaccc ttgtttcata 300
tactcgggtga cgtatgtatg gggctcctca gacaccactg catagagctg gaccagcttg 360
tcgtgcttca gcttcttcat gatctgcgct tcctcaagga atgattcggg ggacattgtg 420
cctggtttaa gagtctttat ggctactttt gtgtttccat tccaggtacc tacaacatc 480
ccagaatatg aagtcaaacc aaagatcttc ttttgatgga aa 522

```

```

<210> 362
<211> 421
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 12, 331, 372
<223> n = A,T,C or G

```

```

<400> 362
ttaatgagtt anaatcttta atatagccat cttagccata accacaaata aactcatttt 60
ttctgttaaa atacttgaca gagtcccttg aattgaatgt ctttgttcaa aaaaaactgt 120
attaagtgtt ttaaattttaa aatcctaact tatgcaataa gctgggtggt aaaaactttt 180
tccatcaaaa gaagatcttt ggtttgaact catattcttg gatgtttgta ggtacctgga 240
atggaaacac aaaagtgcgc ataaagaact ttaaacaggc caaatgtcc cccgaatcat 300
tccttgagga agcgcagatc atgaagaagc ngaagcacga caagctggtc cagctctatg 360
gcagtggtgt cngaggagcc catctacatc gtcaccgagt atatgaacaa aggttgggca 420
a 421

```

```

<210> 363
<211> 503
<212> DNA
<213> Homo sapiens

```

```

<400> 363
cagaaggggt ttccgaatgt tttagttagc cttttggtgg agccgccagc tgacaggaca 60
tcttacaaga gaatttgcac atctctggaa gcttagcaat ctatttgcac actgttctgt 120
ggaagctttt tgaagagcac attctcctca gtgagctcat gagggtttca tttttattct 180
tccttccaac gtggtgctat ctctgaaacg agcgttagag tgccgcctta gacggaggca 240
ggagtttctg tagaaagcgg acgctgttct aaaaaaggct tcctgcagat ctgtctgggc 300
tgtgatgacg aatattatga aatgtgcctt ttctgaagag attgtgttag ctccaagact 360
tttctgtcgc cagtggtttca gttctttatt ttcccttggt gatattgctgt gtgaaccgtc 420
gtgtgagtggt ggtatgcctg atcacagatg gattttgtta taagcatcaa tgtgacactt 480
gcaggacact acaactgtgg aca 503

```

```

<210> 364
<211> 365
<212> DNA
<213> Homo sapiens

```

```

<400> 364
ggccgccttt tttttttttt ttggggggga aaaaattttt ttttaaaaaa aaaaaaactt 60
ccccctggg gaaaaaaaaa ggttttttaa aaaaaaaccc aaacaaaatt ttcccgggcc 120
cttttagggg tttaaatttt cccccgggtt gaaccccttt taaaaaaaaa ggaatttttt 180
tggggggaaa taatggggga aaaaccacaaa aaaaaggggg gttttttttt taaaacctt 240
ttttttttta aaaaacttcc cccaggggaa aaattcccaa aaccttttaa aaaaaaggg 300
ccgaaatttt taatccaag gggaaaaaac ccccccccaa caaaaaacc ccaaggggga 360
aaaag 365

```

```

<210> 365
<211> 680
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 172, 173, 176, 186, 199, 200, 591, 625, 659, 670
<223> n = A,T,C or G

<400> 365
aggacacaga caaggaactt gctgaaagcg caaccatttc aggatcagtc aaaggcagca 60
agcagataga ctcaaggtgt gtgaaagatg ttataacacca ggagotgcca cttoatgtcc 120
caaccagact gtgtctgtct gtgtctgcat gtaagagtga gggagggaag gnnngnacta 180
caaganagtc ggagatgann cagcacacac acaattcccc agccccagtc atgctttgtgt 240
tgaccagatg ttctctgagtc tggagcaagc acccaggcca gaataacaga gctttcttag 300
ttggtgaaaga cttaaacato tgcctgaggt caggaggcaa ttgctctgcc ttgtacaaaa 360
gctcaggtga aagactgaga tgaatgtctt tctctctcct gctctccacc agacttcttc 420
ctggaaaaagc ctttggtaga ttggccagg agctttcttt tatgtaatg gataaataca 480
cacaccatac actatccaca gatatagcca agtagatttg ggtagaggat actatttcca 540
gaatagtgtt tagctcacct agggggatat gttgtatcac atttgcatac nccacatggg 600
gacataagct aattttttac agacnccgatt ctgtcatgct gttaatatgc atgggttaanc 660
ccccattggn ggggcccgtg 680

<210> 366
<211> 570
<212> DNA
<213> Homo sapiens

<400> 366
taagctcggg attcggctcg agcggctcga gtcaagagaa aacacaaaga ggacatcagc 60
cagaacaagc gagccgtgag gcggctgcgc accgctgcgc agagggccaa gaggaccctg 120
tcgtccagca cccaggccag cctggagato gactccctgt ttgaggcat cgactttcac 180
acgtccatca ccaggccgag gttcagaggag ctgtgtctcg acctgttccg aagcacccctg 240
gagcccggtg agaaggtctt gcgcgacgcc aagctggaca aggccccagat tcacgacctg 300
gtcctgtctg ggggtctccc ccgcattcccc aaggtgcaga agctgctgca ggaacttctc 360
aacgggcgcg acctgaacaa gagcatcaac cccgacgagc ctgtggccta cgggcgccgc 420
gtgcggcgcg cactcctgat gggggacaag tccgagaacg tgcaggacct gctgctgctg 480
gacgtggctc cctgtctgct ggggctggag acggccggag gcgtgatgac tgccctgatc 540
aagcgaact ccaccatccc caccaagcag 570

<210> 367
<211> 454
<212> DNA
<213> Homo sapiens

<400> 367
gccgcccttt tttttttttt tttttttttt tttttttttt tttttttttt tttttcaaaa 60
aaaaaaaaatc ttttttagaa aaaaaacccc ccccccaaca aaatggggg ggggggggga 120
ttttccctcc cgggggaagg agaaaaagcc gcagtaataa aagggggggg aacccaaaaa 180
tttttttttt tttttaaaaa aggttttttt gggggccccc ccccccaaaa aaaaaaaagg 240
tccccccctt tttttcccc cttttttggg ggggaaaaaa aaaaaagggg ggggaaaaaa 300
acagaaaaatt ttccccaaaa atttaaaaaa aaaaaggggg ggggggggaa aaaaaaggtt 360
tttttaccct cctggggggg aaaaaaaaaa aatttggggg caccaaaaag gggggggggc 420
cccccaaaaa agggggtttt ttttaaaaaa aaaa 454

<210> 368

```

```

<211> 651
<212> DNA
<213> Homo sapiens

<400> 368
taagctcggg attcggctcg agtgggtctt gtctactccg ggtctttcag gaggccaaaa 60
ggcagctcca gaagattgac aaatctgagg gccgcttcca tgctccagac cttagccagg 120
tggagcagga tggggcgagc gggcatggac tccgcagatc ttccaagttc tgcttggaag 180
agcacaaaag cctcaagacg ttaggcatca tcatgggcac ttccaccctc tgctggctgc 240
cctctctcat cggttaacatt gtgcatgtga tccaggataa cctcatccgt aagggaagttt 300
acatcctcct aaattggata ggcctatgtc attctggttt caatcccttt atctactgcc 360
ggagcccaga ttccaggatt gccttccagg agcttctgtg cctgcgcagg tcttctttga 420
aggcctatgg gaatggctac tccagcaacg gcaacacagg ggagcagagt ggatatcagc 480
tggaacagga gaaagaaaaa aaactgctgt gtgaagacct ccagggcacg gaagactttg 540
tgggccatca aggtactgtg cctagcgata acattgattc acaagggagg aattgtagta 600
caaatgactc actcgtgtaa agcagttttt ctacttttaa agaccccccc c 651

<210> 369
<211> 280
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 112
<223> n = A,T,C or G

<400> 369
tggtcttcgt ctactccagg gtcttttcagg aggccaaaaag gcagctccag aagattgaca 60
aatctgaggg ccgcttccat gtccagaacc ttagccaggt ggagcagagt gngcgggagc 120
ggcatggact ccgcagatct tccaagttct gcttgaagga gcacaaagcc ctcaagacgt 180
taggcatcat catgggcact ttaccctctc gctggctgcc cttcttcacg gttaacattg 240
tgcatgtgat ccaggataac ctcatcogta agaagtttac

<210> 370
<211> 418
<212> DNA
<213> Homo sapiens

<400> 370
ggcgcgccctt tttttttttt ttttttcccg ggcttttttg ggaaaaaacc ccttttccca 60
taaaaaaatt tttttggggg ttcccccaatt tttttttcca atttcaata atttttttcc 120
aaaaaaaacc caaacctctg gggcctttttt tttttttttt aaagggcctt tttacttttc 180
cccgaaggagg ccttgggggaa ataaaaaaa cccggtttgg gggccccaaa aaagggttgg 240
gcccccttga atccccatt ggtttggggg taaaaaaagg ccccccatgg gcccccttcc 300
cccggggggg ggaaccccc ccgaagacc ccccggggga aaccgggcc aaacaaaaaa 360
ccctttaaaa ttttaaaaaa cgggcccccc cctaaaaaaa ctttttttta aaaagggg 418

<210> 371
<211> 292
<212> DNA
<213> Homo sapiens

<400> 371
ttaggggtata agttgctgta aaatttgtgt aaatttgtat ccacacaaat tcagtctctg 60
aatacacagt attcagagtc tctgatacac agtaatttgt acaatagggc taatgtttta 120
aagaaatcaa aagaatctat tagattttag aaaaacattt aaacttttta aaatacttat 180

```

taaaaaattt gtataagcca cttgtcttga aaactgtgca actttttaa gtaaattatt 240  
aagcagactg gaaaagtgat gtattttcat agtgacactgt gtttcactta at 292

<210> 372  
<211> 415  
<212> DNA  
<213> Homo sapiens

<400> 372  
tccttatttta ttttaacttca cccgagttcc tctgggttcc taagcagtta tggatgatgac 60  
ttagcgtcaa gacatttgcg gaactcagca cattcgggac caatatatag tgggtacatc 120  
aagtcacatc gacaaaaatgg ggcagaagag aaaggactca gtgtgtgatc cgggttctctt 180  
ttgtctgccc ctgttttttg tagaatctct toatgcttga catacctacc agtattattc 240  
ccgacgacac atatacatat gagaatatac cttattttatt tttgtgtagg tgcctgcctt 300  
cacaatgtc attgtctact cctagaagaa ccaaataccct caatttttctg ttttgagtac 360  
tgactatcc tgtaaatata tcttaagcag gtttggtttc agcactgatg gaaaa 415

<210> 373  
<211> 326  
<212> DNA  
<213> Homo sapiens

<400> 373  
tccttatttta ttttaacttca cccgagttcc tctgggttcc taagcagtta tggatgatgac 60  
ttagcgtcaa gacatttgcg gaactcagca cattcgggac caatatatag tgggtacatc 120  
aagtcacatc gacaaaaatgg ggcagaagag aaaggactca gtgtgtgatc cgggttctctt 180  
ttgtctgccc ctgttttttg tagaatctct toatgcttga catacctacc agtattattc 240  
ccgacgacac atatacatat gagaatatac cttattttatt tttgtgtagg ggtctgcctt 300  
cacaatgtc attgtctact cctaca 326

<210> 374  
<211> 324  
<212> DNA  
<213> Homo sapiens

<400> 374  
tccttatttta ttttaacttca cccgagttcc tctgggttcc taagcagtta tggatgatgac 60  
ttagcgtcaa gacatttgcg gaactcagca cattcgggac caatatatag tgggtacatc 120  
aagtcacatc gacaaaaatgg ggcagaagag aaaggactca gtgtgtgatc cgggttctctt 180  
ttgtctgccc ctgttttttg tagaatctct toatgcttga catacctacc agtattattc 240  
ccgacgacac atatacatat gagaatatac cttattttatt tttgagttagg tgcctgcctt 300  
cacaatggc attgggtact ccag 324

<210> 375  
<211> 466  
<212> DNA  
<213> Homo sapiens

<400> 375  
taactctggg aggggctcga gagggctggt ccttattttat ttaacttcac ccgagttcct 60  
ctgggtttct aagcagttat ggtgatgact tagcgtcaag acatttgcgt aactcagcac 120  
attcgggacc aatatatagt ggttacatca agtccatctg acaaaaatggg gcagaagaga 180  
aaggactcag tgtgtgatcc ggtttctttt tgcctgcccc tgttttttctg agaatctctt 240  
catgcttgac atacctacca gtattattcc cgacgcacaca tatacatatg agaataatacc 300  
ttttttattt ttgtgtagg gtctgccttc ttgtctactc ttgataagtc ctagaagaac 360  
caaataccct aatttttctt tttgagtact gtactatcct gtaaatatat cttaagcagg 420  
tttgttttca gcaactgatg aaaataccag tgttgggttt tttttt 466

```

<210> 376
<211> 324
<212> DNA
<213> Homo sapiens

<400> 376
tccttatttta tttaacttca cccgagttcc tctgggtttc taagcagtta tggatgatgac 60
ttagcgtcaa gacatttgct gaactcagca cattcgggac caatatatag tgggtacatc 120
aagttcatct gacaaaatgg ggcagaagag aaaggactca gtgtgtgac cggtttcttt 180
ttgtctgccc ctgttttttg tagaatcttt tcatgcttga catacctacc agtattattc 240
ccgacgacac atatacatat gagaatatac cttatttatt tttgagtagg tgtctgcctt 300
cacaaatggc attggctact ccag 324

<210> 377
<211> 326
<212> DNA
<213> Homo sapiens

<400> 377
tccttatttta tttaacttca cccgagttcc tctgggtttc taagcagtta tggatgatgac 60
ttagcgtcaa gacatttgct gaactcagca cattcgggac caatatatag tgggtacatc 120
aagttcatct gacaaaatgg ggcagaagag aaaggactca gtgtgtgac cggtttcttt 180
ttgtctgccc ctgttttttg tagaatcttt tcatgcttga catacctacc agtattattc 240
ccgacgacac atatacatat gagaatatac cttatttatt tttgagtagg ggtctgcctt 300
cacaaatgtc attgtctact cctaca 326

<210> 378
<211> 494
<212> DNA
<213> Homo sapiens

<400> 378
atgccccgca tagatgcgga cctcaagctc gacttcaagg atgtcctgct ccgacctaaag 60
cggagcagcc tcaagagcgg agccgaggtg gatcttgaac gcaccttcac gtttcgaaat 120
tcaaaagcaga cctactcagg gattcccatc atcgtggcca acatgggacac tgggggacag 180
tttgagatgg cagccgtgat gtcacagcac tccatgttta cagcaattca taagcattac 240
tccctggatg actggaagct ctttgccaca aatcacccag aatgcctgca gaatgtagcc 300
gtgagttcag gcagtgaggca gaatgatctg gaaaagatga ccagcatcct ggaagctgtg 360
ccacaggtta agtttatttg cctggatgtg gccaatgggt attcaaaaca tttgtggaa 420
ttcgtgaaac ttgtccgtgc caaatttctt gaacacacca ttatggcagg gaacgtgggt 480
acaggagaaa tgggt 494

<210> 379
<211> 243
<212> DNA
<213> Homo sapiens

<400> 379
gcgcctgcac catgccccgc atagatgagg acctcaagct cgacttcaag gatgtcctgc 60
tccgacctaa gcggacagcc tcaagagcgg agccgaggtg gatcttgaac gcaccttcac 120
gtttcgaaat tcaaaagcaga cctactcagg gattcccatc atcgtggcca acatgggacac 180
ttgtgggacg tttgagatgg cagccgtgat gtcacagcac tccatgttta cagcaattca 240
taa 243

<210> 380
<211> 804

```

```

<212> DNA
<213> Homo sapiens

<400> 380
gcaaatgttt gattaattct gctcatatgc acatctgaaa gcatgagaca cactccacag 60
acagcacgca ctggagctgg tggggcagat gggcactcgc cgattaggta ttaatgtcaa 120
taatacgtgc ataaagtgtc gataaaaataa cttaagtgtt acaaaaacag acagtcacag 180
gtggctgcag gcacatgcag gcgggactgg gtcagacact ccagggctgc acatgttcca 240
gtcggctcga gtccgacacg tcatagctgg cctgttact ggccaggatt ttcatgaggg 300
gcgtagcttt gagccaccac tgttcttttg gaatcctgtg ctcaaaatcc gtttgcttct 360
tcagctctgc cacaggtttg aaaaataacg tttcttttgc ttattccagc cacacaatatg 420
gaatcatcgg tggtaaatat ttttctctgc ccccgggcct ccttgagttt tgcagtgatc 480
cactccatag ctctggcaga gatttttggt ccaaagtttc tatcaaatgg agagggtgcc 540
ccaccctgct gcatgtgacc cagcacgttc ttctcgcagt caaacacgcc ttgcccctct 600
tctgaataca gctggtaaat gaagtcggtg gtgtagtttt cactgcagct ctcatctctg 660
agcacaaagg ctctctggat ggtggtcttc attttctcgc tcaggtgtct cacgttggac 720
tgcagatcct gatgtcgaag ggctcttcga atgtatgcg gcatcatgac gccgcagacc 780
ccccatgttg gcaggtagca cagt 804

<210> 381
<211> 624
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 514
<223> n = A,T,C or G

<400> 381
tggagttgta ggcaaatgtt taattaatct tgctcatatg cacatctgaa agcatgagac 60
acactccaca gacagcacgc actggggctg gtggggcaga tgggcactcg ccgattagggt 120
attaatgtca ataatacgtg cataaagtgc tgataaaaata acttaagtgt tacaaaaaca 180
gacagtcacc ggtggctgca ggcaatgca ggccgggaact ggccagacac tccagggctg 240
cacatgttcc agctggcctg agtccgacac gtcatagctg gccctgtact tggccaggat 300
tttcatgagg ggcctgagct tgagccacca ctgttctttg ggaatcctgt gctcaaaatc 360
cgtttgcctc ttacgtctcg ccacaggttg aaaaataacg tttcttttgc ttattccag 420
cacacaaatg gaatcatcgg tggtaaatat ttttctctgc ccccgggcct ccttgagttt 480
tgcagtgatc cactccatag ctctggcaga gatnttggtt ccaaagtttc tatcaaatgg 540
agagggtccc caccctgctg atgtgacccc acagtttctt cctgagtgaa acacgccttt 600
gccctcttct gaatacaagc ttgtt 624

<210> 382
<211> 507
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 301, 460, 498
<223> n = A,T,C or G

<400> 382
ttttttggag ttgtaggaaa tgtttaatct tgctcatatg cacatctgaa agcatgagac 60
acactccaca agacagcacg cactggggct ggtggggcag atgggcactc gcgattagggt 120
attaatgtta ataatacgtg cataaagtgc tgataaaaata acttaagtgt taaaaaaca 180
gacagtcacc ggtggctgca ggcaatgca ggccgggaact ggtcagacac tccagggctg 240

```

```

cacatgttcc agctggcctg agtcccgaca cgtcatagct ggccttgtag ttggccaggg 300
nttttcacga gggggccctag ctttgagcca ccacttggtc ttgggggaat cctgtgtctc 360
aaaatcccggt tttgtctctt tcagctcttc ccacagggtt gaaaaataac gttttctttt 420
tgcttatttc ccagcacaca aatgggattc atcgggtgggn aatttttttc ctctgccccg 480
gggtctcttg agtttttttca gtgatttc
507

```

```

<210> 383
<211> 224
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 198, 219
<223> n = A,T,C or G

```

```

<400> 383
atcagatccc aaagaccaat tgcaacgtag ctgtcatcaa cgtgggggca cccgcggctg 60
ggatgaacgc ggcgctacgc tcagctgtgc gcgtgggcat tgccgacggc acaggatgct 120
cgccatctat gatggtttga cggcttcgca agggccagat caaagaaatc ggctggacag 180
atgtcggggg ctggacncco caaggaggct ccattctctg gaca
224

```

```

<210> 384
<211> 507
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 301, 460, 498
<223> n = A,T,C or G

```

```

<400> 384
ttttttggag ttgtaggaaa tgtttaattc tgctcatatg cacatctgaa agcatgagac 60
acactccaca agacagcagc cactggggct ggtggggcag atgggcactc gcgattaggt 120
attaatgtta ataatacgtg cataaaagtgc tgataaaaata acctaaagtgt tacaaaaaca 180
gacagtcacac ggtggctgca ggcacatgca ggcgggaactg ggtcagacac tcacgggctg 240
cacatgttcc agctggcctg agtcccgaca cgtcatagct ggccttgtag ttggccaggg 300
nttttcacga gggggccctag ctttgagcca ccacttggtc ttgggggaat cctgtgtctc 360
aaaatcccggt tttgtctctt tcagctcttc ccacagggtt gaaaaataac gttttctttt 420
tgcttatttc ccagcacaca aatgggattc atcgggtgggn aatttttttc ctctgccccg 480
gggtctcttg agtttttttca gtgatttc
507

```

```

<210> 385
<211> 224
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 198, 219
<223> n = A,T,C or G

```

```

<400> 385
atcagatccc aaagaccaat tgcaacgtag ctgtcatcaa cgtgggggca cccgcggctg 60
ggatgaacgc ggcgctacgc tcagctgtgc gcgtgggcat tgccgacggc acaggatgct 120
cgccatctat gatggtttga cggcttcgca agggccagat caaagaaatc ggctggacag 180

```

atgtcggggg ctggaccngc caaggaggct ccattcttng gaca 224

<210> 386  
<211> 232  
<212> DNA  
<213> Homo sapiens

<400> 386  
acgacagaag ggtacggctg cgagaagacg acagatgggt acggctgtga gaagacgact 60  
gttgggaaca gctaaggact gctaaacccc actctgcatc aactgaacgc aaatcagcca 120  
ctttaattaa gctaagccct tactagacca atgggactta aaccoacaaa caattagtta 180  
acagctaagc accctaatac actggtctca atgtactctt ccgcccgtcg gg 232

<210> 387  
<211> 339  
<212> DNA  
<213> Homo sapiens

<400> 387  
tactcggttt ggagaacttg tctacaacca gggattgatt ttaagatgt ctttttttat 60  
tttacttttt ttaagcacc aaattttgtt gttttttttt tttctccct tccccacaaa 120  
tcccttttaa aatatttttg ttaacccccc ttccaacggg ccgagggaac ttaaaccccc 180  
ttttctctcg gctcggttgc tctttaattt ttaatttttc cccatcagtt taaagggttt 240  
ggcatacttg gcatcttttt tcaaaaggaa aaactttttt gccattcttt ggacttcccc 300  
ttttttaaag gaaatggggg ggccaaaagg ggatttcaa 339

<210> 388  
<211> 456  
<212> DNA  
<213> Homo sapiens

<400> 388  
tttttttttt tttttttttt ttttaacatc aaattcacag ctatttttgc ctttttagtgt 60  
gtccacagaa aattagaaca ccttaagcag gagtttaata gcattttttg taagcaaaagt 120  
tacattccat ctctaagtc aattgggtcaa agctttctca gtatttataa aacatgatag 180  
acaagatgct acacaaaacc attgcatctg aagattttgt tttcccttat tctcaaaagc 240  
gactggaaaa gaaagcatta tctgctgttaa tcaaaaaaat accacagtat aaacagttac 300  
cattccactt atcacagctt ggttgagttt agaatttagt ttttaaaagt tccaagatga 360  
ctgcagtttt acaaaaatgg gcagggtgga aggttgcaaa ctccatgtgc ttctggatat 420  
caagatttgt ttttatcaaa tagtcacagt taaaaa 456

<210> 389  
<211> 490  
<212> DNA  
<213> Homo sapiens

<400> 389  
ttacattgaa tactacatat gtcgagggaa tgcagaaaga gtaaggaag gcaggtgtgc 60  
ctgctatgga ggccactctt cgttttccat gtactgcatg ctgtttgtgg cactttatct 120  
tcaagccagc atgaaggagc actgggcaag actcttacc cccacactgc aatttggctc 180  
tggttcgcgt tccatttatg tgggccttct tcgagttgct gattataaac accactggag 240  
cgatgtgttg actggaactc ttcaggggag cctgggttga atattagttg ctgtatatgt 300  
atcggatttg ttcaaaagaa gaactctctt taaagaaaga aaagaggagg actctcctac 360  
aactctgcat gaaacaccaa caactgggaa tcaatctccg agcaatcacc agccttgaaa 420  
ggcagcaggg tgcccagggt aagctggcct gttttctaaa ggaaaatgat tgccacaagg 480  
caagaggatg 490



```

<210> 390
<211> 334
<212> DNA
<213> Homo sapiens

<400> 390
gaactcgggtg gtggccactg cgcagaccag acttcgctcg tactcgtgcg cctcgtctcg 60
cttttctccc gcaaccatgt ctgacaaacc cgatatggct gagatcgaga aattcgataa 120
gtcgaaactg aagaagacag agacgcaaga gaaaaatcca ctgccttcca aagaaacgat 180
tgaacaggag aagcaagcag gcgaatcgta atgaggcggt cgcgcgaact atgcaactgta 240
cattccacaa gcattgcctt cttattttac ttcttttagc tgtttaactt tgtaagatgc 300
aaagaggttg gatcaagatt aaatgactgt gctg 334

<210> 391
<211> 377
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 349
<223> n = A,T,C or G

<400> 391
gaactcgggtg gtggccactg cgcagaccag acttcgctcg tactcgtgcg cctcgtctcg 60
cttttctccc gcaaccatgt ctgacaaacc cgatatggct gaggtcgaga aattcgataa 120
gtcgaaactg aagaagacag agacgcaaga gaaaaatcca ctgccttcca aagaaacgat 180
tgaacaggag aagcaagcag gcgaatcgta atgaggcggt cgcgcgaact atgcaactgta 240
cattccacaa gcattgcctt cttattttac ttcttttagc tgtttaactt tgtaagacgc 300
atagaggggt gatcaagttt aaatgactgt gctgcacctt tcacatcana gaactactga 360
caacgaagcg cgcgcct 377

<210> 392
<211> 555
<212> DNA
<213> Homo sapiens

<400> 392
ctcgggtggtg gccactgcgc agaccagact tcgctcgtag tcgtgcgcct cgttttgctt 60
ttcctccgca accatgtctg acaaacccga tatggctgag atcgagaaat tcgataaagtc 120
gaaactgaag aagacagaga cgcaagagaa aaatccactg ccttccaaag aaacgattga 180
acaggagaag caagcaggcg aatcgtaatg aggcgtgcgc cgccaatatg cactgtacat 240
tccacaagca ttgccttctt attttacttc ttttagctgt ttaactttgt aagatgcaaa 300
gaggttggtg caagttttaa tgactgtgct gcccctttca catcaaaaga ctactgacaa 360
cgaagccgcg gctcgccttt cccatctgtc tatctatctg gctggcaggg aaggaaagaa 420
cttgcatgtt ggtgaaggaa gaagtggggt ggaagaagtg ggtgggacg acagtgaat 480
ctagagttaa accaagcttg cccaagggtg cctgcaggct gtaatgcagt ttaactcagag 540
tgccattttt ttttt 555

<210> 393
<211> 300
<212> DNA
<213> Homo sapiens

<400> 393
gctcaattgg actatgttga cctctatctt attcattctc caatgtctct aaagccagggt 60
gaggaaacttt caccaacaga tgaatatgga aaagtaatat ttgacatagt ggatctctgt 120

```

accacctggg aggccattgga gaagtgtatg gatgcatgat tggccaagtc cattgggggt 180  
tcaaaacttca accgcaggga gctggagatg atcctcaaca agccaggact caagtacaag 240  
cctgggtgca accaggtaga aagtcattcg tttttcaacc ggagtaaat gctagaatcg 300

<210> 394  
<211> 344  
<212> DNA  
<213> Homo sapiens

<400> 394  
acagaagggt acggctgcga gaagacgaca gaaggggtacg gctgagagaa gacgacagaa 60  
gggtacggct gcgagaagac gacagaaggg taaaacactg aactgacaat taacagccca 120  
atatctacaa tcaaccgaca agtcattatt accctcactg tcaacccaac acaggcatgc 180  
tcataaggaa aggttataaaa aagtataaagg aactcggaac atcttaccgc gctgtttac 240  
caaaaacatc acctgtagca tcaccagtat tagaggcacc gctgcccag tgacacatgt 300  
ttaacggccg cggtacccta accgtgcaaa ggtagcataa tcac 344

<210> 395  
<211> 507  
<212> DNA  
<213> Homo sapiens

<400> 395  
tgctcggtcc ttccgaggaa gctaaggctg cgttgggggtg aggcacctcac ttcatccggc 60  
gactagcacc gcgtccggca gcgccagccc tacactcgcc cgccgcatgg cctctgtctc 120  
cgagctcgcc tgcattctact cgccctctcat tctgcacgac gatgaggtga cagtacagga 180  
ggataagatc aatgccccca ttaaaagcagc cggtgtataat gttgagcctt ttggccctgg 240  
cttgttttga aaggcccttg ccaacgtcaa cattggggagc ctcatctgca atgtaggggc 300  
cggtggacct gctccagcag ctggtgctgc accagcagga ggtccctgcc cctccactgc 360  
tgctgctcca gttgaggaga agaaagtgga agcaaaagaa gaagaatcg aggagtctga 420  
tgatgacatg ggctttggtc tttttgacta aaacctcttt ataactgtt caataaaaag 480  
ctgaacttta aaaaaaaaaa aaaaaaa 507

<210> 396  
<211> 488  
<212> DNA  
<213> Homo sapiens

<400> 396  
gaggccctca ttctcatccg cgactagcac cgcgtccggc agcgccagcc ctacactcgc 60  
ccgcgcctat gcctctgtct ccgagctcgc ctgcattctac tcggccctca ttctgacaga 120  
cgatgaggtg acagtacagg aggataaagt caatgccctc attaaagcag ccggtgtaaa 180  
tggtgagcct ttttggcctg gcttgttttg aaaggccctg gccaacgtca acattgggag 240  
ctcatctcgc aatgtagggg ccggaggacc tgctccagca gctggtgctg caccagcagg 300  
aggtccctgcc cctgcactg ctgctgctcc agttgaggag aagaaaagtgg aagcatagaa 360  
agaagaatcc gacgagctcg atgatgacat gggctatggt ctttttgact aaacctcttt 420  
tataacatgt tcaataaaaa gctgaacttt aaaaagaaaa aaaaaaaact cgagcctcta 480  
gaactata 488

<210> 397  
<211> 180  
<212> DNA  
<213> Homo sapiens

<400> 397  
ctgcgttggg gtgaggccct cacttcatcc ggcgactagc accgcgtccg gcagcgccag 60

```
ccctacacac gccgcgcgca tggcctctgt ctccgagctc gctgcatct actcggccct 120
cattctgcac gacgatgagg tgacagtcac ggaggataag atcaatgcc tcattaaagc 180
```

```
<210> 398
<211> 491
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 12, 154, 255, 348, 368, 402, 409, 450, 471
<223> n = A,T,C or G
```

```
<400> 398
tttttttttt tntttcactg ttcaagggtt attggggggt ttagttggta taacacttgg 60
atagtgtggtt gcattgtttg tatgtagatc tttttacatt atattgtaat gtacactact 120
gatatagtctt acaaaaaaag atcctttgga agantttatac acaagacatg atattggatt 180
tatacactgg atcccaggga tgtgactcac tgggaaaaaa tgttggacta ggcattgtca 240
gtgaaggagc cagggnagtta tataacacac ggtaaacatc cacctggctc aagggggcaa 300
tgcatgactg acagcattgg cagtgggtgc tcagaggtgg cagaactntt tcacactaac 360
cagttganga ctacacaaga ttaataccat ccagcatcag gntatagcnt gtggatttta 420
caaaccattt cttattttcta actttcaggn gttgatgttt ttcccagtc ntcttaaaat 480
ttttactgtt t 491
```

```
<210> 399
<211> 235
<212> DNA
<213> Homo sapiens
```

```
<400> 399
tgattttctgt ggateccagc ttggttccag gaattttgtg tgattggctt aaatccagtt 60
ttcaattctt gacagctggg ctggaacgtg aactcagtag ctgaacctgt ctgaccocgt 120
cacgttcttg gatcctcaga actctttgct ctgtcgggg tgggggtggg aactcacgtg 180
gggagcgttg gctgagaaaa tgaaggatt ctggaataca tattccatgg gactt 235
```

```
<210> 400
<211> 465
<212> DNA
<213> Homo sapiens
```

```
<400> 400
tacggctgcg agaagacgac agaagggtac ggctgcgaga agacgacaga agggtagcgc 60
tgcgagaaga cgacagaagg gtacggctgc gagaagacga cagaagggtg atttctgtgg 120
atccagcttt ggttccagga attttgtgtg attggcttaa atccagtttt caatcttcca 180
cagctgggct ggaacgtgaa ctacgtagct gaacctgtct gacctcgctc cgttcttggg 240
tcctcagaac tctttgtctt tgtcgggggt ggggtgggaa ctacagctggg gagcggtggc 300
tgagaaaaatg taaggattct ggaatacata ttccatggga ctttcttcc ctctctgtct 360
tcctcttttc ctgctcccta acctttcgcc gaatggggca gcaccactga cgtttctggg 420
ggccagtgcc ggtgccaggt ttctgttact actgccttgt acttt 465
```

```
<210> 401
<211> 243
<212> DNA
<213> Homo sapiens
```

```
<400> 401
```

tgattttctgt	ggatccccagc	ttggttccag	gaatttttgtg	tgatttggett	aaatccagtt	60
ttcaatcttc	gacagctggg	ctggaacgtg	aactcagtag	ctgaacctgt	ctgacccggg	120
cacgttcttg	gatcctcaca	actctttgct	ctgtgcgggg	tggggggtggg	aactcacgtg	180
gggagcggtg	gctgagaaaa	tgtgaaggatt	ctggaataca	tattccatgg	gactttcctt	240
ccc						243

<210> 402  
 <211> 506  
 <212> DNA  
 <213> Homo sapiens

<400> 402						
ttctagcctc	ctcttaacgt	gcagcaaaaag	caggcgacaa	aatctcctgg	ctttacagac	60
aaaaatattt	cagcaaacgt	tgggcatcat	ggtttttgaa	ggcttttagtt	ctgctttctg	120
cctctcctcc	acagccccc	cctcccaccc	ctgatcatg	agccagtgat	tattcttgtt	180
caggagaaag	atcatttaga	tttggtttgc	attccttaga	atggagggca	acattccaca	240
gctgccctgg	ctgtgtgtag	tgtccttgca	ggggccggag	taggagcact	ggggtggggg	300
cggaattggg	gttactcgat	gtaagggtatt	ccttggttgt	gtgttgagat	ccagtgcagt	360
tgtgatttct	gtggatccca	gcttggttcc	aggaattttg	tgtgattggc	ttaaatccag	420
tttccaatct	tgcacagctg	ggctgggaacg	tgaactcagt	agctgaacct	gtctgacccg	480
gtcagcttct	tggatcctca	gaactc				506

<210> 403  
 <211> 390  
 <212> DNA  
 <213> Homo sapiens

<400> 403						
gtagtgcct	ctctttcagc	agttaccocag	ggtttttgga	gtctctggat	gattttttaca	60
ttcttagcag	tggtattgata	ttgctgcaga	ccacaaaacag	tgtgtttta	aaacccctgc	120
ttaaagcaggt	aaatacccgag	actctcctgt	cctggcaaaag	atgcctgtgtg	gccaatatga	180
tggcagatag	tggaagagag	tgggcagaca	tcttttcaaa	atacaactct	ggcacctata	240
acaataaata	catggttctg	gacctgaaga	aagtaaaagct	gaaccoacagt	cttgacaaaag	300
gcactctgta	cattgtggag	caaattccta	catatgtaga	atatctgaa	aaaactgatg	360
ttctacggaa	aggatattgg	cctcctaca				390

<210> 404  
 <211> 372  
 <212> DNA  
 <213> Homo sapiens

<400> 404						
aggagattca	gaagcacaac	cacagcaaga	gcacctggct	gatcctgcac	cacaagggtg	60
acgatttgac	caaattttctg	gaagagcact	ctgggtggga	agaagtttta	agggaacaag	120
ctggaggtga	cgctactgag	aactttgagg	atgtcgggca	ctctacaaa	gccaggga	180
tgtccaaaac	attcatcatt	ggggagctcc	atccagatga	cagaccaaa	ttaaacaagc	240
ctccggaaac	tcttatcact	actattgatt	ctagtccag	ttgggtggacc	aactgggtga	300
tccctgccat	ctctgcagtg	gccgtcgct	tgatgtatcg	cctatacatg	gcagaggact	360
gaacacctcc	tc					372

<210> 405  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<400> 405						
tcccgggtgg	agctggctga	gtcgcgcgct	ctgtccacc	cgacgggct	gtgtgtgctg	60

ggcctggctc	gcggcgcaacc	gagatggcag	agcagtcgga	cgaggccgtg	aagtactaca	120
ccttagagga	gattcagaag	cacaaccaca	gcaagagcac	ctggctgac	ctgcccaca	180
aggtgtacga	tttgaccaa	tttctggaag	agcatcctgg	tggggaagaa	gttttaaggg	240
aacaagctgg	aggtgacgct	actgagaact	ttgaggatgt	cgggcactct	acaaatgcc	300
gggaatgtc	caaaaacatc	atcattgggg	agctccatcc	agatgacaga	ccaaagttaa	360
acaagcctcc	ggaaactctt	atcactacta	ttgattctag	ttccagttgg	tggaccaact	420
gggtgatccc	tggcatctct	gcagtgggcg	tgcctctgat	gtatgcgcta	tacatggcag	480
aggactgaac	acctcctcag	aagtgcagcg	aggaagagcc	tgctttggac	acgggagaaa	540
agaagccatt	gctaactact	tcaactgaca	gaaaccttca	cttgaaaaaca	atgatgttaa	600
tatatctctt	tctttttct					619

<210> 406  
 <211> 499  
 <212> DNA  
 <213> Homo sapiens

<400> 406						
taagctcgga	attcggctcg	agggctccag	ctgagctcct	gcttctactg	aggacatacc	60
tcccagatga	gggtggggccc	ccaaccccat	tcctctgagcc	tggagcagag	ccccctctca	120
ctgtgggctt	gctcaaaagcc	ctgctggagc	agactggggc	tcaagatggg	ctgtcgggcc	180
cagttctaa	cccatatgag	gacatcctat	gggaccccg	cactccaccc	ccgactccac	240
ctcgggacct	atgactaccc	ttcaggcatc	agaacactca	gggcctggag	gcttgcctgg	300
gactggaggc	ttgcttggac	agttcctctg	tgtoactgac	acaggaatac	attctatgga	360
cacagtgtac	aggggaaggt	gcctgggact	tggagggtcc	catgtatgga	cctgtgtatg	420
caatactgtt	ctgtcatctg	gagctatatt	taagatgtgt	gtgttaataa	tatacatagt	480
ttaatatata	aaaaaaaaa					499

<210> 407  
 <211> 229  
 <212> DNA  
 <213> Homo sapiens

<400> 407						
ggctccagct	gagctctctg	ttctactgag	gacatacctc	ccagatgagg	tggggccccc	60
aaccccatc	cctgagcctg	gagcagagcc	ccctctcact	gtgggcttgc	tcaaagccct	120
gctggggcag	actggggctg	aaggatggct	gtcggggcca	gttctaagcc	catatgagga	180
catcctatgg	gaccccgagc	ctccaccccc	gactccacct	cgggaacct		229

<210> 408  
 <211> 467  
 <212> DNA  
 <213> Homo sapiens

<400> 408						
ggaagtctctg	cgctggctcg	cggagtatca	agtggccatg	gggagcctca	gcggctctgcg	60
cctggcagca	ggaagctgtt	ttaggttatg	tgaagagatg	gttgccctca	tctctaaggc	120
ttaccagaag	ctctgatattg	aagagaataa	atggattttg	cacaaaacca	caggaaagtc	180
ccggagctcc	atcccgcact	tacaacagag	tgccctttaca	caaacctacg	gattggcaga	240
aaaagatcct	catatggtca	ggtcgcttca	aaaaggaaga	tgaatcccca	gagactgtct	300
cgttggagat	gcttgatgct	gcaaaagaaca	agatgcgagt	gaagatcagc	tatctaataga	360
ttgccctgac	ggtggttaga	tgcatcttca	tggttattga	gggcaagaag	gctgcccaaa	420
gacacgagac	tttaacaagc	ttgaacttat	aaaagaaagc	tctgtctg		467

<210> 409  
 <211> 338  
 <212> DNA  
 <213> Homo sapiens

<400> 409  
 ggaagtctctg cgctggtcgg cggagtagca agtggccatg gggagcctca gcggtctcgg 60  
 cctggcgacga ggaagctgtt ttagggttatg tgaagagat gtttccatct ctctaaggct 120  
 taccagaagc totgatttga agagaataaa tggattttgc acaaaaccac aggaaagtcc 180  
 cggagctcca tcccgcaact acaacagagt gcctttacac aaacotacgg attggcgaaa 240  
 aaagatcctc atatgggtcag gtccgttcaa aaaggaagat agactgtctc 300  
 gttggagatg cttgatgtcg cagagatcaa gatgcgag 338

<210> 410  
 <211> 601  
 <212> DNA  
 <213> Homo sapiens

<400> 410  
 tttgcacgat gccttcacaca tcccacggcg ctgctgctgg gggcagattg gctcggggag 60  
 gcagcacttg ctctccagct catctgggtt gcttttcccc gcagtggata tcacaggcta 120  
 aagggggggg cagtcctccac catatttgat tcttttccca agttgcgcgg gacaaccaag 180  
 accaaaggac acagttaacc acctggcccc tctgaagtca gccggctcag acgatgcagg 240  
 aagcgctgct ccgagggccg agggccccca actccatttt ctccacctcc acctgctgat 300  
 gtccactgct ttctgttga agaggcctca gcacctgcca ctttgcgggc ctccccagct 360  
 gggaggctgg agcctggcct tagcagcccc ttttcagacc tactggggccc cttgggtgccc 420  
 caggcagatg aagcaggctg cagcgcccc ccttcaccag agcgccagcc ctccccctc 480  
 gaaccacggc cagtcctccc ctacaggtat atgctgcgcc tgcctccacc cgcgggagcc 540  
 tacatccaga atgaacacag ctaccaggtg ggcagcgctt tactctggaa ggcgcgagcc 600  
 g 601

<210> 411  
 <211> 52  
 <212> DNA  
 <213> Homo sapiens

<400> 411  
 gccctctggg tgcccaggca gatgaagcag gctgcagcgc ccagccttca cc 52

<210> 412  
 <211> 525  
 <212> DNA  
 <213> Homo sapiens

<400> 412  
 cgtttcgggt tctaggggtg ttacgaagct gcaggagcga gatggagggtg gacgcacggg 60  
 gtgttgatgg tcgagatggg ctccgggagc ggcgaggctt tagcgaggga gggaggcaga 120  
 acttcgatgt gaggccctcag tctggggcaa atgggccttc caaacactcc tactgggttg 180  
 acctctggct ttctatcctt ttcgatgtgg tgggttttct ctttgtgtat tttttgcat 240  
 gacttgttcc ctgatatcta aattaagaag ttggttcttg agtgaattct gaaaatggct 300  
 acaaaactct tgaataaaga agacaggact ctcaatagaa gaatttcaca tctccaaagg 360  
 acccttctct ctattttaca ctttgttact aatttgcaga actctattaa ttgggttagga 420  
 tttaccocat tcttagctaa gttcttaaaa ttaaacctct tgggtctggt ttaaaaactt 480  
 tcaaacatct gatggcttta caggggctga atataaaagc atttg 525

<210> 413  
 <211> 604  
 <212> DNA  
 <213> Homo sapiens

<220>

```

<221> misc_feature
<222> 12, 14, 18, 20, 24, 27, 29, 31, 33, 35, 54, 594, 595
<223> n = A,T,C or G

<400> 413
ttcgaaccca tncntttncn atcnganana ngntnctagt tcttctgaag accncatcga 60
ttcgttttcg tttctagggt tgttacgaag ctgcaggagc gagatggagg tggacgcacc 120
gggtgttgat ggtcggagat gtctccggga gcggcgaggc tttagcgagg gagggaggca 180
gaacttcgat gtgaggccct agtctggggc aaatgggctt cccaaacact cctactgggtt 240
ggacctctcg cttttcatcc ttttcgatgt ggtggtgttt ctcttttgtt attttttgcc 300
atgacttgtt cgctgatata taaattaaga agttggttct tgagtgaatt ctgaaaatgg 360
ctacaaactt cttgaataaa gaagacagga ctctcaatag aagaatttca catctccaag 420
ggacccttcc tttcatttta cactttgtta ctaatttgca gaactctatt aattgggtag 480
gatttcaccc attcctagct aagttcttaa aattaaaccc tttggttcgt gtttaaaaac 540
tttcaaacat ctgtaggctt tacaggggct gaatataaaa gcatttgtac ttannaaaaa 600
aaaa
604

<210> 414
<211> 285
<212> DNA
<213> Homo sapiens

<400> 414
ctctaactgt ggcaacagag accctgtctc aaaaagaaaa tattctctgtt agccctaaag 60
gctttacatg aggaatggta gaagtggctc tttgtttaaa ttagtgtcat tcagcatata 120
tgaattgtct taaatatatt ggggataact ccccgcttt taaacagggc ataatagctg 180
gtaaactctc tgtatatctt cctaccttcc aaaatcgctt ttagggttag tcaagtctgg 240
aataataatt ctgactataa agttagcaat tatgctttaa ggtga
285

<210> 415
<211> 241
<212> DNA
<213> Homo sapiens

<400> 415
attttacact gatggctaatt aaagatggag agctaattgac agaattattt aatcgattag 60
aaagtcagca tcattttccag atagaaaaag ctctagtgtga gaaacttcag caggattttg 120
tagctactgt gtgctctgag ggagagtgcc tagcagctat taactccacc tataatactt 180
cagggtatat tttggatcca cacactgctg ttgcaaaagt ggttgccagt aggggtgcaag 240
a
241

<210> 416
<211> 315
<212> DNA
<213> Homo sapiens

<400> 416
cggcttctgg aagaggggggt gttgcggcag atccctgtag tgggcttcgt gctgaattgg 60
ttttctccgg tccaggcttc acagtaggga agaactttta acttgacagc aggcctctctg 120
gagtcocag aacccatata tgtctacaaa gcacaagggt caggagtcac gctgcctcca 180
acgcccctcg gcagctgcac caagcagagg ctccacggcc agaagccttt taaaaggctc 240
ctgcgaggtt cagatgcttt gagtgagacc agctcagtc gtcatatgga agacttagaa 300
aagggtggag gccta
315

<210> 417
<211> 164
<212> DNA

```

```

<213> Homo sapiens

<400> 417
tggatccccc gggctgcagg aattcgaatt ctgtgtgtgt gtgtgtgtat gaatggtata 60
tttattacat tatttagaaa gagaatgagt gtgttatgag gataatgtta tatacagtct 120
aagtggatgt ttctgttttg cacagaatgt aggtattctg aaac 164

<210> 418
<211> 206
<212> DNA
<213> Homo sapiens

<400> 418
tatattttatt acattatttt gaaagagaat tagtgtgtta tgtggataat gttatataca 60
gccaaagtgg atgtttctgt ttggcaagga aggtaggatt tctgaaactc aggccttaac 120
caatagtttg gaagacaaga ccaattgaag agttaggaaa tgtgagtttt tgttacttct 180
gttattccag tcttggttct attgtc 206

<210> 419
<211> 238
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 159, 227
<223> n = A,T,C or G

<400> 419
agcagtgtac ataatatcc agtaggaaac tgcctccaag ttaagcatg agctccccc 60
actggagaaa acatattttg ctattctgag acaacaatca gaatacagac ttgtgattcc 120
aggtocacagt ttgcttttta gacaaggtaa agcaaagana gccacattgt gccatcttca 180
gtccacagtgt ctttagcagt gactgtttga cataaaacat gtaaganttg cttgtttg 238

<210> 420
<211> 504
<212> DNA
<213> Homo sapiens

<400> 420
cggcgtgctt gctgctggag ggtgatggcc ctgcaaggct gtgggctccg acctcacagg 60
gagtcgacag cgagagggtc gccgaagagc gaggttcttg gcgagcgtcg aacgcgggcc 120
ccaagcaccc cgggtcttta cacagtccgc gtccacagac tctgacgaag acgtggatct 180
gctctcgctt tagctgctcg cggctctcca gatcatgtcc gcgaactcgt cgactccgctg 240
cggaaaaaaa agtttgccag gcgtggactc aatgaccttt ccaagctgtg cgctcgctg 300
cctggaccgg gtctgagcgc ggctgcccag gttgaccttt ctgcgggagg gcttttctcta 360
cgtgctgttg ttctcactgg tttttgtcgg agcccccacgc cctccggcct ctgattctctg 420
gaagaaaagg ttggtcccc cagcaccccc agcatcccg aaaatgggga gcaaggctct 480
gccagcggcc atccccgtcc accc 504

<210> 421
<211> 814
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

```



```

<222> 38, 93, 94, 95, 422, 440, 467, 474, 508, 519, 529, 535, 554,
557, 561, 565, 584, 594, 604, 619, 641, 655, 674, 679, 690,
695, 702, 704, 706, 712, 716, 724, 734, 737, 740, 743, 780,
781, 808, 813
<223> n = A,T,C or G

<400> 421
cggggacgga gctcggcgctg cttgctgctg gaggggtntg gccctgcaag gctgtgggct 60
ccgacctcac cgggagtgca cagcgagagg ttnnncgaag agcgagggttc tgggcgagcg 120
ctgacagccg gccccaagca ccccggtctc ttacacagtc cgcgtccaca gactctgacg 180
aagacgtgga tctgctctcg ctttagctgc tcggggtcct ccagatcatg tccgcgactc 240
ctgcgactcc gcgcggaaaa aaaagtgttc caggcgtgga ctcaatgacc ttccaagct 300
gtgcgcctcg ctgcctggac cgggtctgag cgcggctgcc caggttgacc tttctgcgg 360
aagggtcttc tctacgtgct gttgctcatg ggtttttgtc ggagcccaaa cgcctctccg 420
gncttttgat tctctgaaan aaaagggttt ggttcccttc caagcancoc caancattcc 480
ccgggaaaaa atgggggagc caaagggttt ttggccaang gccccaatnc ccggnntcaa 540
cccggtgggt tggnaanttt nacncaaat aaacttcttt cctncaaggc ccngggaaaa 600
aacnttttcc cgggccaacg ggggggaacc aaacttgcaa nggggccttg taccnggtct 660
tcaaacggcg ggttccaana acccttgccn ccatingaac cnantnggaa cncctngggg 720
gtttttcccc aatngngncc cnaaaaaac aaccccggtt ccaaccattt aagggaaaaa 780
ngcgggggg gccccaagg ccttttngg acnt 814

<210> 422
<211> 375
<212> DNA
<213> Homo sapiens

<400> 422
ctgacgaaga cgtggatctg ctctcgcttt agctgctcgc ggtcctccag atcatgtccg 60
cgactctctg gactcgcgcg ggaaaaaaaaa gtttgccagg cgtggactca atgacctttc 120
caagctgtgc gcctcgtctgc ctggacccggg tctgagccgc gctgcaccag ttgacctttc 180
tgccggaggg ctttctctac gtgctgttgc ctcaactgggt ttttgcgga gccccaagcc 240
ctccgcctc tgattctcgg aagaaagggt tggtcccttc agcaacccca gaatcccgga 300
aatgggggag caaggctctg cagcgcocat cccgctccac cgtcgtcgca gctcccaatt 360
actcttctgc agggc 375

<210> 423
<211> 405
<212> DNA
<213> Homo sapiens

<400> 423
ggggacggag ctcggcgctg ttgctgctgg aggggtgatg cctcgcaagg ctgtgggctc 60
cgacctcacc gggagtcgac agcgagaggt tcgccgaaga gcgaggttct gggcgagcgc 120
tgaaacgcgg ccccaagcac cccgggtctt tacacagtc cgtccacag actctgacga 180
agacgtggat ctgctctcgc tttagctgct cgcggtcctc cagatcatgt ccgcgactcc 240
tgcgactccg cgcggaaaaa aaagtgttgc aggcgtggac tcaatgacct ttccaagctg 300
tgcgctcgcg tgcctggacc gggctctgag cgggtgcgcc aggttgacct ttctgcggga 360
gggctttctc tacgtgctgt tgtctcactg ggtttttgtc ggacc 405

<210> 424
<211> 139
<212> DNA
<213> Homo sapiens

<400> 424
ctcgtgttca gctgtcagaa taacagccaa taaaactac aggagcaaaa cctctcagga 60

```

aggtgcttta aaaaagatgc atgaggaaga acaccatcaa caaatgtcca tcttacaact 120  
gcaactgata caaatgaat 139

<210> 425  
<211> 273  
<212> DNA  
<213> Homo sapiens

<400> 425  
ttctggctgg gaagcgcgat tgtggcttta aaccaccatc atggtctagc aaagaggcaa 60  
agaccaagac caccaagaag cgccctcagc gtgcaacatc caatgtgttt gccatgtttg 120  
accagtcaca gattcaggag ttcaaagagg ccttcaacat gattgatcag aacagagatg 180  
gcttcacatga caagggaagt ttgcatgata tgcttgcttc tctagggaag aatcccaatg 240  
atgcatacct tgcagccatg atgaatgagg ccc 273

<210> 426  
<211> 56  
<212> DNA  
<213> Homo sapiens

<400> 426  
gggaaccgcc attctgcctg ggaaccgccca ttctggccgg gaaccgccat tatgac 56

<210> 427  
<211> 365  
<212> DNA  
<213> Homo sapiens

<400> 427  
ggcgcatctt tacctgtcgg ggtgcggcga gtgtctcacc tctctgcaat tccaaggact 60  
cttgtcatct gccttaggcg ggaaatgctg ttgctggatt gcaaccccca ggtggatggt 120  
ctgaagcatt tgcctggagc aggggcctcg gtcaacgcac ccccgatcc ctgcaagcag 180  
tcgcctgtcc acctagccgc aggaagcggc cttgcttgct ttctctctcg gaagctgcaa 240  
acggcgctcg acctcaacca gcaggatgtt ttaggagaag ctccactaca caaggcagca 300  
aaagttggaa gcctggagtg cctaagcctg cttgtagcca gtgatgccca aattgattta 360  
tgtag 365

<210> 428  
<211> 119  
<212> DNA  
<213> Homo sapiens

<400> 428  
gagcgtggc tgagaaatgt aagattctg gaatacatat tccatgggac ttctcttccc 60  
tctctgtctt cctcttttcc tgcctccata cctttgcgcg aatggggcag caccactga 119

<210> 429  
<211> 421  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 130, 185, 246, 256, 336, 361, 385, 412  
<223> n = A,T,C or G

<400> 429

tttttttttt	tttttttggg	aataagtcaa	agcattgttt	atttatgaca	tatttacata	60
tttacaaaac	tgatttttact	caatacatca	tcttgcgtaa	tatcataaaa	tgaacacccat	120
atcctgggaa	taaaatacca	tattttcttaa	taatttatgt	atagcccaac	ttttagaaca	180
tagantatta	tcaatttggc	ttcccaaact	acaaagtctc	gtttataatt	ttttctagcc	240
aaggancaga	gtagngntcaa	caggcatatt	aaagtaattt	agttaacctc	gaggttaatta	300
ctaacttggc	ataatttttg	aatgggggtat	atatanaca	ctttccatct	ggcacttagg	360
ntacttatta	ctattccacac	tacntttttg	gtatttatcc	acctcaattt	tncaacttcc	420
t						421

<210> 430  
 <211> 481  
 <212> DNA  
 <213> Homo sapiens

gggtagccgc	tttttcgtcg	ctcttaccgg	ttggctgggc	cagctgcgcg	gcggtctaca	60
gctgacgatg	ggggaccoca	gcaagcagga	catcttgacc	atcttcaagc	gcctccgctc	120
ggtgcccact	aacaaggtgt	gttttgattg	tggtgccaaa	aaatcccagc	tgggcaagca	180
taacctatgg	agtgttcctt	tgcatgtatt	gctcagggtc	ccaccgggtc	cttggtgttc	240
acttgagttt	tattcgatct	acagagtttg	atccagctg	gtcatgtgtt	caagttgcgat	300
gcattgcaagt	cggaggaaac	gctagtgcac	cttccctttt	tcataaacat	gggtgttcca	360
ccaatgacac	caatgccaa	tacaacagtc	gtgctgctca	gctctatagg	gagaaaatca	420
aatcgctcgc	ctctcaagca	acacggaagc	atggcactga	tctgtggtct	gatagttgtg	480
t						481

<210> 431  
 <211> 136  
 <212> DNA  
 <213> Homo sapiens

ggggtaagtt	tagaaaaatc	gctgggcatg	tccagccctg	accacggcca	gctctggagg	60
gctgtccttt	ggcgtgaccc	acttggaaga	gaaagaaaaa	gaaaaaaaaa	aaaaaaaaaa	120
aaaaatTTTT	TTTTTT					136

<210> 432  
 <211> 578  
 <212> DNA  
 <213> Homo sapiens

aaacaacaaa	caccagaaaa	attacctata	ccaatgatag	caaaaaacct	tatgtgtgaa	60
ctcgatgaag	actgtgaaaa	gaatagtaag	agggactact	taagttctag	ttttctatgt	120
tctgatgatg	atagagcttc	taaaaatatt	tctatgaact	ctgatctatc	ttttcctgga	180
atttctataa	tggaagatcc	attagaaagt	cagcccttag	attcagatag	aagcattaaa	240
gaatcctctt	ttgaagaatc	aaatattgaa	gatccactta	ttgtaacacc	agattgccaa	300
gaaaagacct	cacaaaaagg	gttcgagaa	cctgctgtac	aagagagtaa	ccaaaaaatg	360
ttaggtctcc	ctttggaggt	gctgaaaaac	ttagcctcta	aaagaaatgc	gtgtgtcttt	420
cgaagtttta	acagtcatat	taatgcatcc	ataaactcag	aaccatccag	aatgaacatg	480
acttctttag	atgccaatgg	atatttctgt	tgccatcagt	ggttcatatc	ccatgggtat	540
aacccttact	caaaaaagaa	gatcctgtat	gccacatc			578

<210> 433  
 <211> 229  
 <212> DNA  
 <213> Homo sapiens

```

<220>
<221> misc_feature
<222> 35, 37
<223> n = A,T,C or G

<400> 433
gcctaggtgc ccaggetatg atgagtctgc ttttnangga ggtagggaaat gacatcttcc 60
ttggacccaa agcttaaaag taatgtatgc ttgtgtgacc actgtttgtt aggccttaaa 120
caacattcac tgtggtggta tcaggcacac tgctatgtgc atcaattatt tttttgcttt 180
ccaacagaa totctggggo acaagtttta cactcaagct aagtataac 229

<210> 434
<211> 503
<212> DNA
<213> Homo sapiens

<400> 434
tggtacgcct gcaggtacgc gtccggaatt cccgggtcga cccacgcgtc cggcgctcatg 60
gagctgacct ggttcccatc tactcctttg gagagaatga agtgtacaag cagggtgatct 120
tcgaggagggt ctctcgtgggc cgatgggtcc agaagaagtt ccagaaatcc attggtttcg 180
ccccatgcac ctcccatggt cgaggcctct tctcctccga ccctcggggg ctggtgcccc 240
actccaagcc catcaccaact gttgtggggag agcccatcac catccccaaag ctggagcacc 300
caacccagaa agacatcgac ctgtaccaca ccattgtacat ggaggccctg gtgaagctct 360
tcgacaagca caagaccaag ttccggcctcc cggagactga ggtcctggag gtgaactgag 420
ccagccttcg gggccaattc cctggaggaa ccagctgcac atcaactttt tgctctgtaa 480
atttgaagt gtcattgggtg tct 503

<210> 435
<211> 248
<212> DNA
<213> Homo sapiens

<400> 435
gcgtcatgga gctgacctgg ttcccatcta ctcttttga gagaatgaag tgtacaagca 60
ggtgatcttc gaggagggct cctggggcgc atgggtccag aagaagtcc agaatacatc 120
tggtttccgc ccatgcattc tccatggctg aggcctcttc tccctcgaca cctgggggct 180
ggtgcctact ccaagcccat caccactgtt gtgggagagc ccataccat ccccaagctg 240
gagcaca 248

<210> 436
<211> 457
<212> DNA
<213> Homo sapiens

<400> 436
atcttgtctc ttttcatcgt gatggtgtga tgcgtacgag aatatcttat gctttcttca 60
gcctgttgca atctgagcca atgattttct ttgcactgat cctttctact ctggagagaa 120
gctcttttga cacagatcct gccccgttta atagactcca gctgctggga ctgccttctg 180
agttctttca ctccgaatt ctatctgctc tcgaccccca ccacagtcaa tgactaaagt 240
cctctggact ttacatgga tcgtaataga caacttoatc ctgtttttct taccagacc 300
taaaaatgtc ctccaagaca gtctgtggaa cagtattggag ccagcagcag aagccactca 360
cgaaccaatg gaggagaaca actcagaaac agaccaagt caatctaagg tttactttt 420
ataagtcttt caagagagtc caactgtgta gtaagca 457

<210> 437
<211> 589
<212> DNA

```

<213> Homo sapiens

```
<400> 437
gcttccaggt ctccttccag catccacaca agtacctgct ccactacctg gtttccctcc 60
agaactggct gaaccgccac agctggcagc ggacccctgt tgcctgcacc gcttggggcc 120
tgctgcggga cagctaccat gggggcgtgt gcctccgctt ccaggccacc cacatcgccg 180
tggcggtgct ctacctggcc ctgcaggctc acggagttga ggtgcccgcc gaggtcgagg 240
ctgagaagcc gtggtggcag gtgtttaatg acgaccttac caagccaatc attgataata 300
ttgtgtctga tctcattcag atttatacca tggacacaga gatccctaa ggtcctggcc 360
caggcctgcc caaagagaag cccaggatgg tcggctgcct ggggacattg taccacgtc 420
gocatgacgg ctggtcccca caggaccagc tgggaggact ggttgtgctg ctggagaagg 480
gctggagaag gcaattggcat gctgcccgtt tgcacgtccc taaaagtgcg ggtgcagggt 540
atggtgggag ccgcgcctcc agcgggcagg ccgggaggtt actgtgtgc 589
```

<210> 438

<211> 241

<212> DNA

<213> Homo sapiens

```
<400> 438
cgcttccagg tctccttcca gcctccacac aagtaacctg tccactacct ggttccctcc 60
cagaactggc tgaaccgcc cagctggcag cggaccctgt ttgcctgcac cgcttgggcc 120
ctgctgcggg acagctacca tggggcgctg tgctccgctt tccaggccca gcacatcgcc 180
gtggcggtgc tctacctggc cctgcaggtc tacggagttg aggtgcccgc cgaggtcgag 240
g 241
```

<210> 439

<211> 221

<212> DNA

<213> Homo sapiens

```
<400> 439
ttcagctctg caaacactgt cacatccttt cctggaaggg cactgacctg ccgtgcactg 60
ccaataaccc agagagctgc tccgtttcac ttccacccca ggactttatc aactgtgtca 120
agttctgaat cccagcacat gacaacactt cagaagggtc cccctgtctg ctggagagct 180
gggaatatgg attttggaca cttcatttgt aaatagtgt c 221
```

<210> 440

<211> 228

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 191

<223> n = A,T,C or G

```
<400> 440
gagctttctt aataaccgta cttctcaaaa tcagagtttt actgtttcaa taaatgttca 60
ccctagattg taagtgtttt gttgttgagc cctagatttt ttctactag tgtaaatctg 120
tattccctcc aagtatgtgtg ataaggggac tgagctttat ttacatttgt acaatcacta 180
ctttacctgt ngattttgca gtaagtcttt tgagccctat taaacctg 228
```

<210> 441

<211> 531

<212> DNA

<213> Homo sapiens

```

<400> 441
tttcttaata accgtacttc tcaaaatcag agttttactg ttccaataaa tgttcaccct 60
agattgttaag ttttttgggt ttgagcccta gatttttttc tactagtgtg aatctgtatt 120
ccctccaagt atgggtgataa ggggactgag tcttattttac atttgtacaa tcaactacttt 180
acctgttgta ttgtcagtaa gtcttttgag ccctatttaa cctgtcaatt ttctgttctt 240
gtcagaaaaac tgagattttg gctcaaaaat ggatgtttat aacaaaagggg aacaatatag 300
atgtcttagt acaaaagaaa tgaatgttaa gaggagattg tctggagttc aggggataga 360
gtgtcaagtc ttaaaagggtt acatcttttt gctaagtggt actcagaata tagttacaaa 420
tatggtagctt aaatatctag ctgaaatttg ttgtgcccac gagcttctca catgagtcta 480
ctgggcaatt ttatgtgagt ttgtgtcaaa attggtaatc tcttttatct t 531

<210> 442
<211> 147
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 112
<223> n = A,T,C or G

<400> 442
aaattgtttac ccaataacaa tttaatgtta aatttgggctt tcttctgtgt cccagcctct 60
taaaataata gatgggcctt tccattatca ttatgaccgg acattgtaaa gnacttaagg 120
taacacccag ttttctatta cttgccc 147

<210> 443
<211> 518
<212> DNA
<213> Homo sapiens

<400> 443
acctgaagaa tattagaaga aattgtgcac cctccacaaa acatacaaaag tttaaaagtt 60
tggatctttt tctcagcagg tatcagttgt aaataatgaa ttgggggccca aaatgcaaaa 120
cgaaaaatga atcatctaca tgtagttagt aatttctagt ttgaactgta attgaaatatt 180
gtggcttcata atgtattatt ttatattgta cttttttcat tattgatggt ttggacttta 240
ataagagaaa ttccatagtt tttaatatcc cagaagttag acaatttgaa cagtgtattc 300
tggaatacaa cacactaact gaacagaagt gaatgcttat atatattatg atagccttaa 360
accttttttc tctaatgcct taactgtcaa ataattataa ctttttaaaag cataggacta 420
tagtcagcat gctagactga gaggtaaaaa ctgatgcaat tagaacaggt actgatgctg 480
tcagtgttta acactatggt tagctgtggt tatgctat 518

<210> 444
<211> 76
<212> DNA
<213> Homo sapiens

<400> 444
gctgctcatg agcagcatgg acgacctgat acgccactgt aacgggaagc tgggcagcta 60
caaaatcaat ggccgg 76

<210> 445
<211> 308
<212> DNA
<213> Homo sapiens

```

<400> 445  
gagcattatg agcattatgt cagaatagaa tagaattggg gttcgatctt aacaggccag 60  
aaatgacctg gttttttttg tttgtttttg tttttgtttt tttatcaaat cctgcctgac 120  
tgtctgcttg ttttgcctac catcgtagaca tctccatggc tgtaccacct tgtcgggtag 180  
cttatacagc tgatgtttgac tgttgaatct catggcaaca ccagtcgatg ggctgtctga 240  
cattttggta tctttcatct gaccatccat atccaatgtt ctcatttaaa cattaccag 300  
catcattg 308

<210> 446  
<211> 530  
<212> DNA  
<213> Homo sapiens

<400> 446  
tgtgttaaatg tttcttagca tgtactotgg ttccaacaga cacaaattta tatgttaacc 60  
cagttttctt gccgtttctgt aagtgtttta ttcttagtgt gatttttttc cattgggatg 120  
tttttgattg aactgtttca tttgtttttg ctggggagga aataaacaac tttactttt 180  
ttccttttagg agcattatga gcattatgtc agaatagaat agaattgggg ttcgatctta 240  
acaggccaga aatgcctggg ttttttttgt ttgtttttgt tttgttttt ttatcaaaac 300  
ctgcctgact gtctgtctgt tttgacctac atcgtgacat ctcctatggc gtaccacctt 360  
gtcgggtagc ttatcagact gatgttgact gttgaatctc atggcaaacac cagtcgatgg 420  
gctgtctgac attttgggat ctttcatctg accatccata tccaatgttc tcatttaaac 480  
attaccagc atcattgttt ataatacaga actctgtgtc ttctgtctgg 530

<210> 447  
<211> 104  
<212> DNA  
<213> Homo sapiens

<400> 447  
ggacgtgcct ggaaccacct cgtccacgtc cagctccacc tggggggctc gggaggctag 60  
gccctcctc aaaggccccc cagcccggtg ctcactgtga gcc 104

<210> 448  
<211> 417  
<212> DNA  
<213> Homo sapiens

<400> 448  
tatctttcat ctgaccatcc atatccaatg ttctcattta aacattaccg agcatcattg 60  
tttataatca gaaactctgg tcttctgtgc tgggtggcact taaagtcttt tgtgccataa 120  
tgacagcaga tggaggggagg attttatgga gaaatgggga tagtcttcat gaccacaaat 180  
aaataaaggga aaactaaact gcactgtggg ttttgaaaag gttattatac ttcttaacaa 240  
ttcttttttt cagggaattt tctagctgta tgactgtttac ttgaacctct ttgaaaagca 300  
ttcccaaaat gctctatctt agatagttta acattaaaca acataatttt ttttagatcg 360  
agtcagcata aatttctaag tcagcctcta gtcgtggttc atctctttca cctgcat 417

<210> 449  
<211> 630  
<212> DNA  
<213> Homo sapiens

<400> 449  
tttttttttt tttttttttt ttggaatcgc aagaattccc aggcctctct tttatttaca 60  
gtgataccaa accatccact tgcaaatctt ttgggtctccc atcagctgga attaatgtag 120  
tactgtgtat ctttgagatc atgtattttg ctccactttg gtggatatac gaaaggaagg 180  
cacgaacagc tgaaaaagaa gggatccaca ccgctccagc tggaaatccag caggaaacctc 240

tgagcatgcc	acagctgaac	acttaaaaga	ggaagaagg	acagctgctc	ttcatttatt	300
ttgaaagcaa	attcatttga	aagtgcataa	atggtcatac	taagtcacac	gtatcaatta	360
gaccttcaac	ctaggaacaa	aaatTTTTTT	ttctattttaa	taatacacca	cactgaaatt	420
atttgccaat	gaatcccaaa	gatttgggtac	aaatagtaga	attcgtattt	gctttccctc	480
ttccttttct	cagacaaaca	ccaaataaaa	tgacagtgaa	agagatgaac	cacgactaga	540
ggctgacctt	gaaattttat	ctgactcgat	ctaaaaaa	ttatgttggt	taatgtttaa	600
ctatctaaaa	tagagcattt	tgggaatgct				630

<210> 450  
 <211> 596  
 <212> DNA  
 <213> Homo sapiens

<400> 450						
tttttttttt	tttttttttt	tttggggtaa	aagtttatatc	ttattgccat	gctacaaaat	60
gtatgaagtt	ggcactgata	gggagaaata	gagaacaaag	ggtgggaagg	gatagagga	120
aaattatgtt	gttacctata	caacaagggt	ttattttaat	taacagtggt	tacgttttgc	180
caatatttaa	aatgcaaaac	aaaattttaa	atgctgatct	gaaacagcat	taagatacaa	240
tgtatgcata	gtacagttat	acttatgtct	ttttattaga	gaaatatgga	atgtttataa	300
aagaaattaa	ccatgggggt	aaaattccta	ttctcatatac	aatttggcaa	tggtagtccc	360
actgttggac	aattttttat	aaaagaaaaa	attaaaaatc	taataagcta	cotttataca	420
aagttgctat	atttatgcct	ttactgttaga	aaaaaacatt	tataatgcac	attaggacat	480
acaatagctt	tacaataacta	tacaatgtaa	tgaataaaaa	acataacaca	aagtttgc	540
tttataaaat	gtatatattt	cattactaat	gcaaatgttg	cacactgggt	actact	596

<210> 451  
 <211> 559  
 <212> DNA  
 <213> Homo sapiens

<400> 451						
tggcgggttg	ctttccaaaa	tggcgcgggt	gtcgaaggct	gcagccgcga	atgccgtagg	60
gcttttttcc	agaactcaag	ctccatttcc	aacagtaaga	gctttttcca	cacacagccc	120
cttgatcaaa	gtgacaggtt	ctgtgtggaa	cctgggtcga	ctcaaccatg	tagccatagc	180
agtgcagat	ttggaaaaag	ctgcagcatt	ttataagaat	attctggggg	cccaggtaag	240
tgaagcggtc	cctcttctct	aacatggagt	atctgttgtt	tttgtcaacc	tgggaaatac	300
caagatggaa	gtgcttcttc	cattgggacg	tgacagtcga	attgcaggtt	ttctgcagaa	360
aaacaaggct	ggagggaatgc	atcacatctg	atcgaggttg	gataatatta	tgacagctgt	420
gatggatttg	aaaaaaaaag	aagatccgca	gtctaagtga	aggggtcaaa	ataggagcac	480
atggaaaaac	agtgattttt	ctccatccta	aagactgttg	tggagtcctt	gtggaactgg	540
agcaagcttg	acttatattt					559

<210> 452  
 <211> 638  
 <212> DNA  
 <213> Homo sapiens

<400> 452						
tggcgggttg	cggtccaaat	ggcgcgggtg	ctgaaggctg	cagccgcgaa	tgccgtaggg	60
gctttttcca	gaactcaagc	tcccatccca	acagtaagag	ctttttccac	atcacagccc	120
ttggatcaag	tgacaggttc	tgtgtggaa	ctgggtcgac	tcaaccatgt	agccatagca	180
gtgcccagatt	tggaaaaagg	tgcagcattt	tataagaata	ttctgggggc	ccaggtaagt	240
gaagcgggtc	ctcttcttga	acatggagta	tctgttgttt	ttgtcaacct	gggaaataac	300
aagatggaac	tgtcttcatc	attgggaagt	gacagtcoc	ttgcaggttt	tctgcagaaa	360
aacaaggctg	gagggaatgc	tcacatctgc	atcgaggttg	ataatatta	tgacagctgt	420
atggatttga	aaaaaaaaag	agatccgcag	tctaagtga	gggggtcaaa	taggagcaca	480
tggaaaacca	gtgatttttc	tccatcctaa	agactgttgt	ggagtccttg	tggaaactga	540



gcaagcttga cttatatttg caagcaacta aattaattga cctgaaaaag cctatcaaat 600  
actatcaaaa tgtactatga cattgagtc ttcaactgc 638

<210> 453  
<211> 57  
<212> DNA  
<213> Homo sapiens

<400> 453  
gactacattt ggggatgatg cattccttta agattgaatg attotgccot tgggcag 57

<210> 454  
<211> 538  
<212> DNA  
<213> Homo sapiens

<400> 454  
gccgggctgc taattctgtt taattgttcc tgggctaaaa agaattagaa ggaagctgtc 60  
tggtttccac tggcggttatg ttccagtaaa ttgacgtac ttctgatga atactaatta 120  
gccactgagc atttgacacc actgtctttg ctggtgtgtg gcagacagc tgccaagtgtg 180  
cccaagaccc togtatcccc atccccctct ctgtgtttcc aottttgggc ttcccttgcc 240  
tagattagaa gagatttcag ttccgagaaa gtaaaagggt atccaaaggaa gtaatcacgc 300  
agtgtctcat ggtttttctt tgttgacaaa attcaaaact cacacatgtg tagtctaattg 360  
atagcgcgtag gatttaaaga aagtgtttta gtgctgtgct tatttaggac tacatttggg 420  
gatgatgat tcccttaaga ttgaatgatt ctgcccttgg gcagagctcc caattaggga 480  
ggattaggta agotttttgt ggcgatgggt aataccattc ttttctcat tgtgcctg 538

<210> 455  
<211> 548  
<212> DNA  
<213> Homo sapiens

<400> 455  
tgaatcagta ggaattgtgg gaaggagtg aggggagacc cctccttga ctcagcagtg 60  
gtgacggtgc gtgtgtcctg cagacctgaa gccaaagatca agggggcctg agcaccagga 120  
gccccccgag ttgctgaatg accagcggag ggcaggtgcc agcctgtggc aaaaataggaa 180  
agaaaaggac aggatgggga cttcaccatt tttttcagcc ttaaatgtgt ccttaaacct 240  
tcattgtcctt ttctctaatt tgtgttcttg ttgggtaaaa taaaaaagtt tgtaacctg 300  
agttctctaa agatatacat tcttttttac tggtttgtga agtcagaagg atgagagctg 360  
ctattttctg gaaccgtgca ataaatatta gcataatcag tctcggttct gctagagga 420  
cctatttgc tttctttatc tcgtaaccca taactcacag gacattaacc aggggtgtcca 480  
agaacagtcct gggaaagtgt tgataattac ttacgacttg ctgtgtgatg ggagacattg 540  
ttttaaaa 548

<210> 456  
<211> 354  
<212> DNA  
<213> Homo sapiens

<400> 456  
tcagtgaggag tgaatcagta ggaatgtggg gaaggagtg aggggagacc cctccttga 60  
ctcagcagtg gtgacggtgc gtgtgtcctg cagacctgaa gccaaagatca agggggcctg 120  
agcaccagga gcccgcgag ttgctgaatg accagcggag ggcaggtgcc agcctgtggc 180  
aaaataggaa agaaaaggac aggatgggga cttcaccatt tttttcagcc ttaaatgtgt 240  
ccttaaacct tcattgtcctt ttctctaatt tgtgttcttg ttgggtaaaa taaaaaagtt 300  
tgtaaccttg agttctctaa agatatacat tcttttttac tggtttgtga agtc 354

```

<210> 457
<211> 570
<212> DNA
<213> Homo sapiens

<400> 457
cttttatagg attcatttaa aggtgaataa aataatgaat gtgaaactca tattagagct 60
taacatatag tagtaatgat ttataaaata tttgcctccc ttagaccaga gcagctacta 120
aatttgattt taataataag ataaacaaat taataagatc acaaagtgtg tatgtaataa 180
cataaacagc tgtgttaaaa ttagtagtga cccatatcaa agaaacacaa ttacaagag 240
attaagaagg ataataatta aagtgtagct ttactcagtc ttttgtgtga aggtattctt 300
agggataaaa caatgtattt ggaagctgct ggaagaatat ggtgcaaaga atatttttaa 360
atgcttgtga atgttctgta accacaaaca tagatacata acagatcaaa gacatatttt 420
agactgccat gtggacttaa atcatgggag gcggaagagt ggctcccaa agaggactat 480
atcgtataac cagaacttgt gaatatatta ctttaagtgg caaaagggac ttacagatg 540
tgattaaaaa taaggacctt gaaatggggg                    570

<210> 458
<211> 540
<212> DNA
<213> Homo sapiens

<400> 458
aactagactt cttttatagg attcatttaa aggtgaataa aataatgaat gtgaaactca 60
tattagagct taacatatag tagtaatgat ttataaaata tttgcctccc ttagaccaga 120
gcagctacta aatttgattt taataataag ataaacaaat taataagatc acaaagtgtg 180
tatgtaataa cataaacagc tgtgttaaaa ttagtagtga cccatatcaa agaaacacaa 240
ttacaagag agttaagaagg ataataatta aagtgtagct ttactcagtc ttttgtgtga 300
aggtattctt agggataaaa caatgtattt ggaagctgct ggaagaatat ggtgcaaaga 360
atatttttaa atgcttgtga atgttctgta accacaaaca tagatacata acagatcaaa 420
gacatatttg agactggcat gtggacttaa atcatgggag gcggaagagt ggctcccaa 480
agaggactat atcgtagtag cagaacttgt gaatatatta ctttaagtgg caaaagggac 540

<210> 459
<211> 622
<212> DNA
<213> Homo sapiens

<400> 459
acttaagatt ttttcaatgt aagaaaaatg caatgaataa atagctgcaa ataccacta 60
ctaacaattg cttggccttc ttatatagac ctcocgaggt tctcatcttt tacatttcoag 120
gagtagaatt agttaaaaac taatctttat atgtaaggga tgagagagag aaagaggagg 180
gtatgtgtat gcacacatgt gtgtgtgtgt ggtgggtagt aattttaatt caatgattta 240
ctagagttcg atgtcgtttg ctgataaatg aagcaggagg aagagccagg tttggagggg 300
acgagagaat gagtccattt tgtctcatat agaagttgaa gtaactgagt gatgatgggt 360
agagatgtcc ctcaggggta gccacagtat tttatttact tttatttacc cacatgcagc 420
aaggagcttt gttctccaaa atgtctgcaa ttatttttct aaattacagg tttgattgct 480
tcactgtatt ttcatgtctc attactacct ttacgcttaa aaccagaaac tgtgccacag 540
cgttaaaagt tctgtcaact tttaaaatac agaactctgg agatgccata attagattgc 600
agatttatga gtcttctgga ta                    622

<210> 460
<211> 378
<212> DNA
<213> Homo sapiens

```

```

<400> 460
acaatgggtt  tgttctctgc  cttataaatt  gggggattct  agaggagtct  gcttttctcc  60
caagaaggac  ctcttctttt  cttgcttttc  atatgctctc  cttgagatat  cttgggtatt  120
ctcatggctt  taaatagcac  ttatatccag  aagaactcata  aatctgcaat  ctaattatgg  180
catctccaga  gttctgtatt  ttaaaagtta  gcagaatctt  taacgctgtg  gcaaaagtct  240
tggttttaag  cgtaaaagta  gtaatgagac  atgaaaatac  cgtgaagcca  tcaaacctgt  300
aatttaaaaa  aataattgac  agcatttttg  agaacaagaac  tccttgctgc  atgtggggaa  360
taaaaagtaa  ataaaaata
378

```

```

<210> 461
<211> 396
<212> DNA
<213> Homo sapiens

```

```

<400> 461
cctctgctc  tacgagaact  atgggcagtc  ggaacgggga  ctaatttctg  ccacctactg  60
gggaatgaag  atcaagccgg  gtttcatggg  gaaggccact  ccacctactg  acgtccaggt  120
cattgatgac  aaggggcaga  tctctgccac  taacacagaa  ggaacacattg  gcatcagaat  180
caaacctgtc  aggcctgtga  gcctcttcat  gtgctatgag  ggtgaccaga  agaagacagc  240
taaaagtgaa  tgtggggact  tctacaacac  tggggacaga  ggaagatgag  atgaagaggg  300
ctacatttgt  ttctggggga  ggagtgtatg  catcattaat  gcctctgggt  atcgcatcgg  360
gcctgcagag  gttgaaagtg  ctttgggtga  gcaccc
396

```

```

<210> 462
<211> 529
<212> DNA
<213> Homo sapiens

```

```

<400> 462
ttttttttt  tttttttttt  ttttttgggt  agaaatgggg  ttttaccatg  ttgccaggcg  60
tagtctcgaa  ctctgggct  taagcaatcc  acacacctcg  cttccaaaaa  agctgggggt  120
acagggtgta  gccatcacac  ccagcctaata  atacaatctc  aaatatattt  ttttaaatca  180
ttacttactg  aaotataaag  taaaactaat  ttttagacag  catttttaata  catattttac  240
tttttaaaag  ttataaagaa  aacactaaca  atatggaaaa  tgcataatta  aagaaaattg  300
aaatcaaaaa  taactttatg  gctcaaaatc  attagtgtta  atattttgat  acctaccttc  360
cccattcttt  gcctacgaat  actgggttaa  gagtttttta  atagttttgt  ccttgctttg  420
taattttcgt  atgtttctac  aaaagagaag  ctgaggaagc  atttggtcat  tgggaaaatt  480
aattaataga  tgtttaactta  ccaagatata  ctataataga  ttagacagac
529

```

```

<210> 463
<211> 485
<212> DNA
<213> Homo sapiens

```

```

<400> 463
tttaaagtaa  atgactcatg  ttgaggaaag  aggttattac  ctaaatctgg  actgaggcct  60
aaggaaaattc  ccttaacctc  tattctgggt  tcttatattc  aaatggttgt  gtaggaggct  120
aatggaaagt  agttgggttg  tatgatccaa  aaactctatg  ggtgaaaatt  taaagtacag  180
attctctatt  taatcgttaa  acagctttag  ttgtgagttc  tatgtcctgg  tataatggat  240
cctgattatt  aatgcattaa  atatgcatto  agtgaattca  aatgttgcta  attattcttt  300
taccatcaa  agaaaactca  aagcatggga  ttaagagggg  ttggccaaaa  gtatttggac  360
caggttgcat  accaggacca  tgaagaaatt  gagaacagag  cctacatctt  ttatactatg  420
gctcaaagca  agggctgttg  gaatgtgctg  cttctccaaa  gtaggactta  tgaaaaaatg  480
agggt
485

```

```

<210> 464
<211> 576

```

```

<212> DNA
<213> Homo sapiens

<400> 464
tatcagcatc tgtagaggag aaagcagaat aagcactggg gtatttgata gacttgagaa 60
taagagaacc ccaaagtgtg caatagggtat ttgctagaaa gttcagtgagg tcagggtggg 120
aatagcagct gaaattggca gggattttga ctattcaaat aatgggtgag tagaagggat 180
ctgtggaaat gccattatga cctcttgaaa ccaggcaact aggggggtccc ttctagaaat 240
atgctgcgta cctaagaat tccagtaggga gtggagtcaa aatgatcaga aaagatagag 300
atagtgtgtg caaaagatga tctaagagtg tgtgtgtatg tgtgtgagtg agagagagaa 360
atctcaagaa atagtgtgta tgggtgtgaa cactacatga aagcaacctc aaacagctgt 420
gtgaagttag aaaaggtact ctggaccata ttgcccgtga aaagctcagg aaaactaatt 480
ttgcataaac ataagcaaca ggaaattatt gctgtcaaat ctcatcaga gttattgtac 540
aaaaaaagag acaagaatcc ctatagacaa tgaaag 576

<210> 465
<211> 459
<212> DNA
<213> Homo sapiens

<400> 465
ttatctaaag ttctaacag ggggtgtaat gatattagca gcaagagcta tgagaaataa 60
ctttagacat tatttcattg aaccttccca actgaaatta ttttatgatg ttataacatg 120
gatagtaact caagtagcaa taagttacac agttgtgcca tttgtgtctc ttctataaaa 180
accatcactc acgtttttaca gctcctggta ttattgcctg cacattcttg gtatcttagt 240
attatcggtg ttgccagtga aaaaaactca aagaagggaag aatacacatg aaaacattca 300
gctctcacaa tccaaaaagt ttgatgaagg agaaaattct ttgggacaga acagtttttc 360
tacacaaac aatgttttga atcagaatca agaaatagcc tcgagacatt catcactaaa 420
gcagtgatcg ggaaggctct gagggctgtt tttttttt 459

<210> 466
<211> 250
<212> DNA
<213> Homo sapiens

<400> 466
tataccccagg atattattcta acgtgtctaa caggggtgtt aatgatatta gcagcaagag 60
catagagaaa taacctttaga cattattttca ttgaaccttc ccaactgaaa ttattttatg 120
atgtttataac atggatagta actcaagtag caataagtta cacagttgtg ccattttgtg 180
ttctttctat aaaaaccatca ctacagtttt acagctcctg gtattattgc ctgcacattc 240
ttggtatctt 250

<210> 467
<211> 509
<212> DNA
<213> Homo sapiens

<400> 467
atactttatc tatttttcgg caacttgctt cctcatgaa ccatggacat ctcaatgtgc 60
cattacacac aggagttata tgttaggtat ttgtgtccca cttaacagaa gagaatccgc 120
aaggttcaca gagtgaatca taggcataaa gtccctcagg tggtaaatgg caaggctggt 180
gttccaaaca gtctttctcg gctccaggga ctggctccct cagactacat ttcaaccagt 240
gctccaggga acagaagacg ggaattcacc ttctcatgca catataccag aaacgtggac 300
ctcagccccc ctgggttcta ttgatcccc agggccttca ttggcccctc gaataaaaaa 360
cttatttttt tatctctcta cctttcccag aattcatagt aggaactggc tggtagaagg 420
ctgggtgtct agaaggctac agtgtggtga ggctgcagtt cctgttattt acattgcccc 480
aggtaattaat attgtatatt taggcagct 509

```

```

<210> 468
<211> 554
<212> DNA
<213> Homo sapiens

<400> 468
ggattttcaaa tctgagatga tactttatct attttcgggc aacttgcttc cctcatgaac 60
catggacatc tcaatgtgcc attacacaca ggagttatat gttaggtatt gttgtcccat 120
tttacagaag agaatccgca aggttcacag agtgaatcat aggcataaag tocttcaggt 180
ggtaaatggc aaggctgggt ttccaaccag tcttctctgg ctccagggac tggctccttc 240
agactacatt tcaccagctg cctccaggaa cagaagaacg gaattcacct ttcattgcgac 300
atataccaga aacgtggaco tcagccacccc tgggtcctat ttgatcccca gggccttcat 360
ttggccctcg aataaaaaac ttattttttt atctccttac ctttcccaga attcatagta 420
ggactttggt ggtgaaagcg tggttgctga gaaggctaca gtgtggctag gctgcagttc 480
cctgttatta cattgcccca ggtattaata ttgtatat ttgcagctgt tctcatccgt 540
gctggcagtg gaaa 554

<210> 469
<211> 537
<212> DNA
<213> Homo sapiens

<400> 469
attctgaccc cattgtgcac cttagtcatg gcaaactttc cagttgctcc ttgccaaaac 60
tcaagaataa aaggggcccaa gctagagagg ctgtcctcac aagcatcagc tgctgggggc 120
ttcactcat tttcctctga aacaacagag aaagagacca tctctcattc gcagagcagc 180
ccaaggccct ctgaggagac tgtgagttct ctctaagtca tttctctctg ctttgtagca 240
gtggagctac caagggtgag atgagcaggt tgagaggcct ctgaagcctg ctgggcacaa 300
tgctctgtga taagtttcag ctccactgga gcttatcctc caccagcaat cgacttcatg 360
gctgctgctc agagggcccta ggtgctgcgc tgctcactgc cctcactgct ctgggacttc 420
cacacataaa gccatctctt tccattgcac tatggcaact gtaggaggga tcccacactt 480
agggcccaaa atgagaccat ttgagtoaaa tttctaattg tctttcaaat tttatta 537

<210> 470
<211> 492
<212> DNA
<213> Homo sapiens

<400> 470
attctgaccc cattgtgcac cttagtcatg gcaaactttc cagttgctcc ttgccaaaac 60
tcaagaataa aaggggcccaa gctagagagg ctgtcctcac aagcatcagc tgctgggggc 120
ttcactcat tttcctctga aacaacagag aaagagacca tctctcattc gcagagcagc 180
ccaaggccct ctgaggagac tgtgagttct ctctaagtca tttctctctg ctttgtagca 240
gtggagctac caagggtgag atgagcaggt tgagaggcct ctgaagcctg ctgggcacaa 300
tgctctgtga taagtttcag ctccactgga gcttatcctc caccagcaat cgacttcatg 360
gctgctgctc agagggcccta ggtgctgcgc tgctcactgc cctcactgct ctgggacttc 420
cacacataaa gccatctctt tccattgcac tatggcaact gtaggaggga tcccacactt 480
agggcccaaa tg 492

<210> 471
<211> 509
<212> DNA
<213> Homo sapiens

<400> 471
aagacattca aattagccac cactggagta gatgacctaa aagttcttac aactctcaat 60

```

tataccacagt	gatgtctcga	ttagcactta	ttataaaaaat	taaaatttat	aattcaacat	120
ttataccatc	cagaaaaagt	taaaatatat	taatagccta	ttctcttcca	ataaaagcgt	180
tataataact	tattttgttaa	tgtttctatt	ctccatgaca	ttctgtttat	agataagccc	240
tatgctattt	ctagtcaagt	gctaattctc	tgaatgaagc	tgaattaggt	agtcaactac	300
tagatgtatc	ctgaaaagca	agtaaatgtg	atatttcatt	tattttatac	ataagagcta	360
cagactgttg	tcacaactct	ttcaagggct	attaaattca	ttattttaac	taacattttt	420
gaacatctgt	cttatgttgt	taattgagga	cattttctgaa	tgtataacaa	cataagaata	480
atagttgtta	aacttcaaag	agatgacag				509

<210> 472  
 <211> 649  
 <212> DNA  
 <213> Homo sapiens

<400> 472						
caaatagcc	accactggag	tagatgacct	aaaagttctt	acaactctca	attataccca	60
gtgatgtctc	gatttagcact	tattataaaa	attaaaaatt	ataattcaac	atttatacca	120
tccagaaaa	gttaaaaat	attaatagcc	tattttctct	caataaagcg	tatatataac	180
tctatttgtt	aatgtttcta	ttctccatga	cattctgttt	atagataagc	cctatgctat	240
ttctagtcaa	gtgctaactc	cttgaatgaa	gctgaattag	gtagtcaact	actagatgta	300
tctgaaaaag	caagtaattg	gtatatattc	tttattttat	acataagagc	tacagactgt	360
tgtcacaact	ttttcaaggg	ctattaaatt	cattattttt	actaacattt	ttgaacatct	420
gttatttgtt	gttaatttga	gacattttot	aatgtataac	aacataagaa	taaatgtttt	480
ttaacctcaa	agagatgaca	ggttaatgag	taaaaggagaa	atatgaaata	tcacagaatt	540
cccttgacact	aaatgatgtt	ttgcaaatc	tgaacagaat	gatgtttgta	aaactttccac	600
tggttttcaa	gagtcoccaa	acattaggaa	aatgtacatc	acctaactt		649

<210> 473  
 <211> 494  
 <212> DNA  
 <213> Homo sapiens

<400> 473						
atatoagaag	taaaaaaatt	tttctgtgtg	actgcttttg	taaaaaacag	tttgatggat	60
agttttacat	ttoactggag	tagataaaaa	atgggtgctaa	tatttatgta	gcttgatgct	120
atagttgctt	tggtatccaa	cttaaatacct	aaccocatata	agatccttat	tataaaattt	180
tgtgatcagt	aaaatgatat	tttaaaagagt	gatcttaaaaa	atatgacctg	gtcattgcaac	240
aacgttttga	tttgaaatga	atttttgtac	tatagggtgg	atatggagtt	attcagtgta	300
agtggtgtgt	taatatccaa	ccctatgcaa	ggagctatgt	ctagattttt	ggtccgaatt	360
tgctctcttc	aagcctacta	gtgtgagatg	gaaaaaaatc	gattgctctt	tttaatttat	420
ttccattttg	aaattctcga	cacttgaatg	aaggcagtag	aagcctcttt	ttggattttc	480
cttctaataa	caaa					494

<210> 474  
 <211> 630  
 <212> DNA  
 <213> Homo sapiens

<400> 474						
aaaacatttt	tottgttgac	tgcttttgta	aaaaacagtt	tgatggatag	ttttacattt	60
cactggacta	gataaaaaat	ggtgctaata	tttatgtagc	ttgatgctat	agttgctttg	120
gatcaaaact	taatacctaa	cccataatag	atccttatta	tataattttg	tgatcagtaa	180
aatgatattt	taaaagagtga	tcttaaaaaat	atgacctggt	cattgcacaa	cgtttgcatt	240
tgaatgaat	ttttgtacta	taggggtgag	atggagttat	tcagtccaag	tgtgtgctta	300
attcaaaacc	ctatccaagg	agctatgtct	agattttttg	tcgaattttg	ccctcctcaa	360
gcctactagt	gtgagatgga	aaaaaatcga	ttgctctttt	aatattattt	ccattttgaa	420
attctcgaca	cttgaatgaa	ggcagtagag	gcctcttttt	ggatttctct	tctaataaca	480

aaacttttatt	tagggaaggt	ttccctgtgc	tatcgtaagt	ttgttttgag	cactgcattc	540
acttttaaat	tctggaggaa	caaaggctgg	gcacataatc	acaaagccca	ggccacacaa	600
taattccggg	gttgatattt	ctaagaacta				630

<210> 475  
 <211> 156  
 <212> DNA  
 <213> Homo sapiens

<400> 475						
gggggagata	aggcaaaag	gcacttttgg	attttcccat	ctgagcagct	ctgtgattca	60
ttatctgttc	tagaaagcag	cacacgcagt	tccagcaaaa	aaaaaaaaa	aaaaaaaaatt	120
tttttttttt	ccccctttt	tttttttttt	ttcccc			156

<210> 476  
 <211> 579  
 <212> DNA  
 <213> Homo sapiens

<400> 476						
attccgttgc	tgteggcgcc	cggttcccca	tgagcctcct	gttgccctcc	ctggcgctgc	60
tgtctgttct	cgccggcgctt	gtggccccag	ccacagccgc	cactgcctac	cgccgggact	120
ggaacgctgt	gagcggccta	acccgcgcgc	gggtagagac	ctgcggggga	tgacagctga	180
accgcctaaa	ggaggtgaag	gctttctgtca	cgcaggacat	tccattctat	cacaacctgg	240
tgtatgaaaa	cctccctggg	gccgacctg	agctcgtgct	gctggggccg	cgctacgagg	300
aactagagcg	catcccaactc	agtgaatga	cccgcaaga	gatcaatgcg	ctagtgcagg	360
agctcgctgt	ctaccgcaag	gcggcgcccg	acgcgcaggt	cccccccgag	tactgtgtgg	420
cgcccccgaa	gccccacag	gaaaacttcg	accacgctga	ccggggcgct	cgggggcgct	480
gcggagctgg	gacctacctg	cctgagctct	ggagacagaa	tgaagcgctc	agcatcccg	540
gaataacttct	cttgctgaga	gccgatgcc	gtccccggg			579

<210> 477  
 <211> 472  
 <212> DNA  
 <213> Homo sapiens

<400> 477						
ggcttagcgg	ataacaattt	cacacaggag	ctagcagaca	ccacaagata	ccaacagagc	60
ttctgaaaaa	gatacccata	gcattggaga	gaaaaacagc	tcacagctctg	aggaaagatga	120
tattgaaaaa	aggaaagaag	ttgaaagcat	cttgaaagaaa	aactcagatt	ggatatggga	180
ttgggtcaagt	cgcccgggaaa	atattccccc	caaggagttc	ctctaaacac	ccgaagcgca	240
cgcccccctt	cagcatgagg	aacacgagcg	tcattgaagaa	aggggggcata	ttctctgcag	300
aattttcgaa	agatttccct	ccatctctgc	tgctctctca	tttgcggccc	atcgatttgg	360
ggatctatat	tggaaaggct	gtgacaacct	ccaccagcac	cttttgatga	agaactggag	420
tctgacttgg	ttcgttagtg	gattacttct	gagcttgcaa	catagctcac	tg	472

<210> 478  
 <211> 355  
 <212> DNA  
 <213> Homo sapiens

<400> 478						
tctacactta	aagcttttga	gcaattccca	tcgaccagag	ttgggtccgac	cagccttggga	60
aaggtcactg	aaaaattctc	aattggacta	tggtgacctc	tatcttatat	attttccatt	120
gtctgcaaa	cagggtggag	aagtgatccc	aaaagatgac	aatggaaaaa	tactatttga	180
cacagtgat	ctctgtgcc	catgggaggg	catggagaa	tgtaaaagatg	cacgattggc	240
caagtcacat	gggtgttcca	acttcaacca	caggctgctg	gagatgatcc	tcaacaagcc	300

agggctcaag tacaagcctg tctgcaacca ggtggaatgt catccttact tcaac 355

<210> 479  
<211> 510  
<212> DNA  
<213> Homo sapiens

<400> 479  
aagactactg aatctgctac caaaacagtg aatcagtgag tcgatgttct attttttgtt 60  
ttgttttctc cctatctgtt attcccaaaa attacttttg ggctaattta acaagaacctt 120  
taaattgtgt ttttaattgtt aaaatggcag ggggtggaat tattactcta tacattcaac 180  
agagactgaa tagatatgaa agctgatttt ttttaattac catgottcac aatgttaagt 240  
tatatgggga gcaacagcaa acaggtgcta atttgatttg gatatagtat aagcagtgctc 300  
tgtgttttga aagaatagaa cacagtttgt agtgccactg ttgttttggg ggggcttttt 360  
tcttttcgga aatcttaaac cttaagatac taaggacgtt gttttggttg tactttggaa 420  
ttcttagtca caaaatatat tttgtttaca aaaatttctg taaaacaggt tataacagtg 480  
tttaaagtct cagtttcttg cttggggaac 510

<210> 480  
<211> 371  
<212> DNA  
<213> Homo sapiens

<400> 480  
ttccgttgtc gtcggaattg aggaagagct gggggatgaa gtcgctttg ccggacataa 60  
cttcctgaat cccagtgctg tgtgatttct ctgcttgctt ggagacgttg aacctctgtc 120  
tcactcctct ggaacctttg tgtcctgctc tgtgatagtt cccccctga gatccccctga 180  
gccccagggt gccacagaact tccctgattg acctgctccg ctgctccttg gottacctga 240  
cctcttgctg tctctgctcg cctcctcttc tgtgcctac tcattggggg tccgcacttt 300  
ccactctctc tttctctctt ctctctctcc tcaaaaaacta gaaatgtgaa tgaggattat 360  
tataaaaggg g 371

<210> 481  
<211> 543  
<212> DNA  
<213> Homo sapiens

<400> 481  
aattccgttg ctgctcggtg ctggaggcca tctccagaa ctctcctgac gccaaaatct 60  
tgtcctcggt gcacaaaatg gatctggttc aggaggatca gcgtgacctg atttttaaaag 120  
agcgagagga agacctgagg cgtctgtctc gcccgctgga gtgtgctgtt ttctgaacctg 180  
ccatctggga tgagacgctc tacaaagcct ggtccagcat cgtctaccag ctgattccca 240  
acgttcagca ctggagatg aacctcagga attttgccc aatcattgag gccgatgaag 300  
ttctgctgtt cgaaagagct acattcttgg ttatttccca ctaccagtc aaagagcagc 360  
gcgacgtcca ccggttttag aagatcagca acatcatcaa acagttcaag ctgagctgca 420  
gtaacattgc cgtctccttc cagagcatgg aagttaggaa ttccaaactc gtgctttca 480  
tcgacatctt cactccaaat acgtacgtga tgggtggtcat gtcagatccg tcgatccctt 540  
ctg 543

<210> 482  
<211> 415  
<212> DNA  
<213> Homo sapiens

<400> 482  
ggcttactca ctataggct tttttttttt tcgggtctat tctttaattt tactaaatta 60  
ggaacgcagc ttttacagaa caaataacc caggggacgg gggccccca ggatctaaca 120



```

gcttttcagg gagctatgtt gcaagctcaa aagtaatcca ctaacgaacc aagtcaaat 180
ccagttttta ataaaaagg gctgggggag gttgtcaaac cccttccaat ataaatcccc 240
aatccgatgg ccaccaaagt aaaaagcacc agggatggaa ggaataattt caaaaattct 300
gcaaaaaata tgcccccttt ttaaatgacc ctcggttcc taatgctaag gggggccgcc 360
cccttcgggg gttaaaaaag gaactccttg gggggaatat ttccggccg acttg 415

```

```

<210> 483
<211> 240
<212> DNA
<213> Homo sapiens

```

```

<400> 483
tttttttttt taaagtcatt gaggccatgg ggttggttg aaaccacctt tgggggggtcc 60
aatcccttcc ttttttgctt aaattttatg tatacgggtt ctccaagtgc gtggtagggg 120
ggggggcatc catatagtc ctccaggttt atggagggtt ctctactat taggactttt 180
cgcttcaaaa caaaggcttt tcaaatcatg aaaaatttta atttctctgc tgttaaaaaa 240

```

```

<210> 484
<211> 293
<212> DNA
<213> Homo sapiens

```

```

<400> 484
tttttttttt aataaatctc ctaaggggat ggctactttt tctatctaaa taataatata 60
tagacctatt cgatcagaga tacaggggac taacaatcac aatcctgtga tcgacatccg 120
aacataagtc actatctatc agaataaaca atgatccaac gaataataga ggagtaaggg 180
gacatgtcca aagcatcagg tatcgtcatg atcgaaaacc actgtcaagc aagacacaaa 240
caaacaaaac agctttacac acaagtcagc agtccaagcg ttcctgtccc aag 293

```

```

<210> 485
<211> 221
<212> DNA
<213> Homo sapiens

```

```

<400> 485
tttttttttt tcaaggggaca cttaaatggt taacttaagg gatcatcaat ttgcctcac 60
tacctacaaa ggggaatttca tcttgtcccc atgctgagta gggaaacagg gacaaagtta 120
atcataatac cctacatcaa aaaaaaacta agctaacact gctaaacttt ttttaacag 180
gcaaaatata aatatatgco ctctaaaatg cccaagggtt t 221

```

```

<210> 486
<211> 563
<212> DNA
<213> Homo sapiens

```

```

<400> 486
ttccgttgct gtcgcctccg ctctgctctt cgtggaacac gaccgtggtg cccggccctt 60
gggagccttg gggccagctg gectgctgct ctccagtcac gtacggaagc tctaccacc 120
cagacaccca aacagccgtg gccccagagg tcttgggcaa atatgggggc ctgcctaggt 180
tggtggaaca gtgctcotta tgtaaactga gccctttggt taaaaaacaa ttccaaatgt 240
gaaactagaa tgagagggaa gagataacat ggcattgcagc acacacgcgt gctccagttc 300
atggccctccc aggggtgctg gggatgcac ccaagtgggt gtctgagaca gagtgggaaa 360
ccctcaccaa ctggccctct cacttccacc attatcccc tgcacccggc tgccctgtct 420
cactgcagat tcaggagcag cttgggctgc gtgcgttctg ccttccaggt cagccgagga 480
tgtagttgtt gctgcgctgc tcccaccacc tcagggaacca gagggctagg ttggcactgc 540
ggccctcacc aggtcctggg ctc 563

```

```

<210> 487
<211> 271
<212> DNA
<213> Homo sapiens

<400> 487
ctcatatggt caggtcgctt caaaaaggaa gatgaaatcc cagagactgt ctcggtggag 60
atgcttgatg ctgcaaaagaa caagatgcga gtgaagatca gctatctaatt gattgccctg 120
acggtggttag gatgcattct catggttatt gagggcaaga aggctgccca aagacacgag 180
actttaacaa gcttgaactt agaaaagaaa gctgctctga aagaggaagc agctatgaag 240
gccaaaacag agtagcagag gtatccgtgt t 271

<210> 488
<211> 342
<212> DNA
<213> Homo sapiens

<400> 488
ggcttgaat acgactcact atagggttt ttttttttcg aattaaaaaa attccgtag 60
ccttttctcc atctctctta attctggtag catcttttga cccctaacc ttggcatctg 120
ctacttcaga caaacaaccc ctatgtaaat gacaaagaag gggcctccca acctctctcc 180
tgtgttacta ttccaagaag actactcggg gcacaggggg acaaatctct tatggccact 240
agcatctttt ttcaattttc aaaggaatca tcaaacatct ggggtcaatta tacttaaat 300
acagaagccc ggaatttttag gcaacaggcc cctcatttta cc 342

<210> 489
<211> 326
<212> DNA
<213> Homo sapiens

<400> 489
tttttttttt aaaaagtcat ggaggccatg ggggttggtt gaaaccagct ttggggggtt 60
cgattccttc cttttttgtc taaattttat gtatacgggt tcttcaaatg tgtggttagg 120
tggggggcat ccatatagtc actccagggt tatggagggt tcttctacta ttaggacttt 180
tcgcttcgaa gcgaaggctt ctcaaatcat gaaaattatt aatattactg ctgttagaaa 240
aatgaatgag cctaccgatg ataggatgt tcatgtgggt tatgcactcg ggtagtccga 300
gtaacgtcgg ggcattccgg ataggc 326

<210> 490
<211> 55
<212> DNA
<213> Homo sapiens

<400> 490
tttttttttt tttttttttt agaaaccggg gggggttttt tttttaaaat tgggg 55

<210> 491
<211> 558
<212> DNA
<213> Homo sapiens

<400> 491
cgccggtgcc ccttctcgtc cctgcggggc cccagctggg accccttcgg cgactggtac 60
ccgcatagcc gcctcttcga ccaggccttc gggctgcccc ggctgcggga ggagtggctg 120
cagtgggttag gcggcagcag ctggccaggc tacgtgcgcc ccctgcccc cgccgccatc 180
gagagccccg cagtggccgc gcccgccatc agccgcgcgc tcagccggca actcagcagc 240

```

```

ggggtctctcg gagatccggc acactgcggc cgcgtggcgc gtgtccctgg atgtcaacca 300
cttcgccccg gacgagctga cggtaagac caaggatggc gtgggtggaga tcaccggcaa 360
gcacgaggag cgccaggagc agcatggcta catctcccggt tgccttcacgc ggaatacac 420
ggtgtggccc ggtgtggacc ccaccaagt ttctctctcc ctgtccctgc agggcacact 480
gacgtggag gccccatgc ccaagctagc acgcagtc cagcagatca ccatccag 540
caccttcgag tcgcgggc 558

```

```

<210> 492
<211> 370
<212> DNA
<213> Homo sapiens

```

```

<400> 492
ggctagcggg taacaatttc acacaggatg gatttgctc agtgaattga atattgtaag 60
tcagccactg ggacccgagg atttctggga ccccgagtt gggaggaggga agtagtccag 120
ccttcacagg ggcgtgagag gcaatgaact gttacctgcc gccatcacc ttggaggcct 180
tccctggcct tgagttagaaa agtcgggat cggggcaaga gaggtcagat acggatggga 240
aactattgtg cacaagtctt tccagaggag ttctctaatg agatattgt atttatttcc 300
agaccataaa atttgaact ttgcgaaaaa aaaaagccc tatagtgtat cgtattacaa 360
gccgaattcc 370

```

```

<210> 493
<211> 560
<212> DNA
<213> Homo sapiens

```

```

<400> 493
cagccagcat gaccgagcgc cgcgtccctt tctcgtctct gcggggcccc agctgggacc 60
ccttcgcgga ctgggtaccgc catagccgcc tcttcgacca ggccttcggg ctgccccggc 120
tgccggaggga gtggtcgcag tggtagggcg gcagcagctg gccaggtac gtgcgcccc 180
tgccccccgc cgcctacgag agccccgcag tggccgcgcc cgctacagc gcgcgcgtca 240
gccggcaact cagcagcggg gtctcggaga tccggcacac tgcggaccgc tggcgctgt 300
ccctggatgt caaccacttc gccccggacg agctgacggt caagaccaag gatggcgtgg 360
tgagatcac cggcaagcac gaggagcggc aggcagagca tggctacatc tcccggtgct 420
tcacgcggaa atacacgctg cccccgggtg tggacccac ccaagtcttc tctcctctgt 480
cccctgaggg cacactgacc gtggaggccc ccatgcccaa gctagccacg cagtcacaag 540
agatcaccat cccagtcacc 560

```

```

<210> 494
<211> 443
<212> DNA
<213> Homo sapiens

```

```

<400> 494
ggcttgtaat acgactcact atagggtctt tttttttgca agtgcgtgtg gaagaaagt 60
agatttacgc cgtatgaatat gatagtgaat tggatttttg cgtaggtttg gtctagggtg 120
tagcctgaga ataggggaaa tcagtgaatg aagcctccta tgatggcaaa tacagctcct 180
attgataggga catagtggaa gtgagctaca acgtagtacg tgcgtgtag tacgatgtct 240
agtgatgagt ttgtctaatac aatgccagtc aggccacctc cggtagaaa aaagatgaat 300
cctagggtct aaagcatcgc agcagatcat ttcatattgc ctccgtggag tgtggcaggt 360
cagctaaaata ctttgacgcc ggtggggata gcgatgatta tggtagcatc atcctgtgtg 420
aaattgttat ccgctaagcc gaa 443

```

```

<210> 495
<211> 249
<212> DNA
<213> Homo sapiens

```

```

<400> 495
tttttttttt cgaaggattt ggcaaaagatt tgtttttttt tccatttcca gtttttttaa 60
gtaaacacag atttgccttaa aataaaagctg atttttaaaag cccacaaaag ttgaacacaa 120
aggagaggatt taaattcccc aatgcagagt gatataaaag aaaagattcct gaggagggtgc 180
cttcagcaaa aaactgatca tccagggtga tcacctataa atcggagact taattcctta 240
taatgcataa
249

<210> 496
<211> 434
<212> DNA
<213> Homo sapiens

<400> 496
tttccgtatc tgcctcgggc ttccacctca tttttttcgc tttgccatt ctgtttcagc 60
cagtcgcgcaa gaatcatgaa agtcgcagct ggccagcacc ccaccgccgc cgcggggcccc 120
agctgcgcgc tgaaggccgc caagacagcg agcgggtgcg gcgaggtggt gcgctgtctg 180
tctgagcaga gcgtggccat ctgcgcctgc gccggggggcg ccgggggcgc cctgectgcc 240
ctgctggagc agcagcaggt aaacgtgctg ctctacgaca tgaacggctg ttactcacgc 300
ctcaaggagc tgggtgccac cctgccccag aaccgcaagg tgagcaagggt ggagattctc 360
cagcacgtca tcgactacat cagggaacct cagttggagc tgaactcgga atccgaagtt 420
ggaacccccg gggg
434

<210> 497
<211> 368
<212> DNA
<213> Homo sapiens

<400> 497
tttttttttg cttatggagg gttcctctac tattaggact tttcgtctcg aagcgaaggc 60
ttctcaaatc atgaaaaatta ttaataattac tgcgtgttaga gaagtgaatg accctacaga 120
tgataggatg tttcatgtgg tgtatgcac ggggtagctc gagtaacgtc ggggcattcc 180
ggataggccg aaaaagtgtt gtgggaaaaa agttagattt accccgatga atatgatagt 240
gaaatggatt ttggcgtagg tttggtctag ggtgtacctt gagaataggg gaaatcagtg 300
aatgaagcct cctatgatgg caaatacacg tctattgatg aggacatagt ggaagtgagc 360
tacaacgt
368

<210> 498
<211> 482
<212> DNA
<213> Homo sapiens

<400> 498
ccagccttcc tgctccgggc cagcgtctg acatgcagaa ggtgaccctg ggctgcttg 60
tggtcctggc aggtcttctt gtcctggagc ccaatgacct agaagataaa aacagtcctt 120
tctactatga ctggcacagc ctccagggtg gcgggctcat ctgcctggg gtctgtgctg 180
ccatgggcat catcatcgtc atgagtgcaa taagcgaatg caagtttggc cagaagtccg 240
gtcaccatcc agggggagact ccacctctca tcacccaggg ctacgcccaa agctgatgag 300
gacagaccag ctgaaattgg gtggaggacc gttctctgtc ccagagtcct gtctctgcac 360
agaaaactga actccaggat ggaattcttc ctctctgct gggactcctt tgcattggcag 420
ggcctcatct cacctctcgc aagagggtct cttgtttcaa tttttttta tctaaaaatga 480
tt
482

<210> 499
<211> 489
<212> DNA
<213> Homo sapiens

```

```

<400> 499
tggcgagcag tttcccaactt gccaaagatc ccttttaacc aacactagcc cttgttttta 60
acacacgctc cagcccttca tcagcctggg cagtettacc aaaatgttta aagtgatctc 120
agagggggccc atggattaac gccctcatcc caaggctccg cccatgacat aacactccac 180
accgcgcccc gccaaactta tgggtcactt tttctggaaa ataatgatct gtacagacag 240
gacagaaatga aactcctgcg gctctttggc ctgaaagtgg ggaatggttg ggggagagaa 300
gggcagcagc ttatttggtg tcttttcacc attggcagaa acagtgagag ctgtgtggtg 360
cagaaatcca gaaatgaggt gtagggaatt ttgcctgcct tcctgcagac ctgagctggc 420
tttgaatga ggttaaagtg tcagggaagt tgctgagcc caaatgtgta gtgtggtctg 480
ggcaggcag

```

<210> 500

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide primer

<400> 500

ggaatcaccg ctttgcacat ttcaa 25

<210> 501

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide primer

<400> 501

aaattctacc gtttcgccac taagg 25

<210> 502

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide primer

<400> 502

gaccgtgtac tgcgtgtcgt gcg 23

<210> 503

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide primer

<400> 503

gcgtgctgtg cgtcatgtgc cag 23

<210> 504

<211> 24  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Oligonucleotide primer  
  
 <400> 504  
 gccgtcttca ggcaacaact ccca 24  
  
 <210> 505  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Oligonucleotide primer  
  
 <400> 505  
 tgctggacga ggcgtgcata ttgc 24  
  
 <210> 506  
 <211> 25  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Oligonucleotide primer  
  
 <400> 506  
 acaggagaga aactggttgt cctgg 25  
  
 <210> 507  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Oligonucleotide primer  
  
 <400> 507  
 aaggcagaac ccatccactc caa 23  
  
 <210> 508  
 <211> 25  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Oligonucleotide primer  
  
 <400> 508  
 gctgctggat tcgtttggca taact 25  
  
 <210> 509  
 <211> 25  
 <212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide primer

<400> 509

tcaatacggg ttgcttaggt cgtcg

25

<210> 510

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide primer

<400> 510

tctcctctga gttcaacgcg tgct

24

<210> 511

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide primer

<400> 511

tcgtcgccaa cttgagtctc ctct

24

<210> 512

<211> 406

<212> PRT

<213> Homo sapiens

<400> 512

Met Ala Glu Asn Gly Lys Asn Cys Asp Gln Arg Arg Val Ala Met Asn  
1 5 10 15  
Lys Glu His His Asn Gly Asn Phe Thr Asp Pro Ser Ser Val Asn Glu  
20 25 30  
Lys Lys Arg Arg Glu Arg Glu Glu Arg Gln Asn Ile Val Leu Trp Arg  
35 40 45  
Gln Pro Leu Ile Thr Leu Gln Tyr Phe Ser Leu Glu Ile Leu Val Ile  
50 55 60  
Leu Lys Glu Trp Thr Ser Lys Leu Trp His Arg Gln Ser Ile Val Val  
65 70 75 80  
Ser Phe Leu Leu Leu Ala Val Leu Ile Ala Thr Tyr Tyr Val Glu  
85 90 95  
Gly Val His Gln Gln Tyr Val Gln Arg Ile Glu Lys Gln Phe Leu Leu  
100 105 110  
Tyr Ala Tyr Trp Ile Gly Leu Gly Ile Leu Ser Ser Val Gly Leu Gly  
115 120 125  
Thr Gly Leu His Thr Phe Leu Leu Tyr Leu Gly Pro His Ile Ala Ser  
130 135 140  
Val Thr Leu Ala Ala Tyr Glu Cys Asn Ser Val Asn Phe Pro Glu Pro  
145 150 155 160  
Pro Tyr Pro Asp Gln Ile Ile Cys Pro Asp Glu Glu Gly Thr Glu Gly





gaaaactggt tgtcctggat gtttgaaga ttggtcgttg tcatggtgtg ttacttcac 1140  
 ctatctatca ttaactccat gccacaaagt tatgccaaac gaattccagca gcgggttgaaac 1200  
 tcagaggaga aaactaaata a 1221

<210> 514  
 <211> 338  
 <212> DNA  
 <213> Homo sapiens

<400> 514  
 gtgctgtccc cgccataggt ccatctctgc agaagccatt tcaggagtag ctggaggctc 60  
 aacggcagaa gcttcaccac aaaagcgaaa tgggcacacc acagggagaa aactgcttgt 120  
 cctggatgtt tgaaaagtgc gtcgatgtca tgggtgtgta ctccatccta tctatcatta 180  
 actccatggc acaaaagtat gccaaacgaa tccagcagcg gttgaactca gaggagaaaa 240  
 ctaataagt agagaaagt ttaaaactgca gaaattggag tggatgggtt ctgccttata 300  
 ttggaggagc tccaagccgg gaaggaaaat tccctttt 338

<210> 515  
 <211> 186  
 <212> DNA  
 <213> Homo sapiens

<400> 515  
 tgtgttaaatg ttttctagca tgtactctgg ttccaacaga cacaatttta tatgttaacc 60  
 cagttttctt gccgttctgt aagtgtttta ttcttagtgt gatttttttc cattgggatg 120  
 tttttgattg aacttgttca ttttgttttg cttgggagga aaataaaca ttttactttt 180  
 ttcctt 186

<210> 516  
 <211> 118  
 <212> DNA  
 <213> Homo sapiens

<400> 516  
 acagggagaa aactggttgt cctggatgtt tgaaaagtgt gtcgttgtca tgggtgtgta 60  
 ctccatccta tctatcatta actccatggc acaaaagtat gccaaacgaa tccagcag 118

<210> 517  
 <211> 338  
 <212> DNA  
 <213> Homo sapiens

<400> 517  
 gtgctgtccc cgccataggt ccatctctgc agaagccatt tcaggagtag ctggaggctc 60  
 aacggcagaa gcttcaccac aaaagcgaaa tgggcacacc acagggagaa aactggttgt 120  
 cctggatgtt tgaaaagtgt gtcgttgtca tgggtgtgta ctccatccta tctatcatta 180  
 actccatggc acaaaagtat gccaaacgaa tccagcagcg gttgaactca gaggagaaaa 240  
 ctaataagt agagaaagt ttaaaactgca gaaattggag tggatgggtt ctgccttata 300  
 ttggaggagc tccaagccgg gaaggaaaat tccctttt 338

<210> 518  
 <211> 186  
 <212> DNA  
 <213> Homo sapiens

<400> 518  
 tgtgttaatg ttttctagca tgtactctgg ttccaacaga cacaatttta tatgttaacc 60

```

cagttttctt gccgttctgt aagtgtttta ttcttagtgt gatttttttc cattgggatg 120
tttttgattg aacttgttca ttttgttttg ctgtgggagga aaataaaca ttttactttt 180
ttcctt 186

```

```

<210> 519
<211> 118
<212> DNA
<213> Homo sapiens

```

```

<400> 519
acagggagaa aactggttgt cctggatgtt tgaaaagttg gtcgttgtca tgggtgtgta 60
cttcatccta tctatcatta actccatggc acaaaagttat gccaaacgaa tccagcag 118

```

```

<210> 520
<211> 518
<212> DNA
<213> Homo sapiens

```

```

<400> 520
tggaataaac tgtggacact ttctggtagc tttttggacc ttcttttggtg caaccctaata 60
tggaataaac ataataaaaa tgcataatcca gaaaattttt gttataataa cattcagcaa 120
gcatcatagt gagcaaatgg tggctttcat tgggtgtgtc cccggcatag gtccatctct 180
tcgagaagcca ttccaggagt acctggaggc tcaacggcag aagcttcacc acaaaagcga 240
aatggggcaca ccacagggag aaaactgggt gtccctggatg ttgaaaaagt tgggtgtgtg 300
catggtgtgt taacttcacc tatctatcat taactccatg gcacaaagt atgccaaaacg 360
aatccagcag cggttgaact cagaggagaa aactaaataa gttagagaaag ttttaaaactg 420
cagaaattgg agtggatggg ttctgcotta aattgggagg actccaaagg ggaagagaaa 480
attccctttt ccaacctgta tcaattttta caactttt 518

```

```

<210> 521
<211> 493
<212> DNA
<213> Homo sapiens

```

```

<400> 521
agaatttcag cagttctctg atttttatat tttatctctc ttctatacca atccctgect 60
tttgagtcga ggtggtaagt acattttctt taacgttttt cctgcttttc ttcccaaatg 120
tgtctttttc ttggggctac tgaacctgc ttccagtgct gtcccggcca taggtccatc 180
tctgcagaag ccatttcagg agtacctgga ggctcaacgg cagaagcttc accacaaaag 240
cgaaatgggc acaccacagg gagaaaaact cttgtcctgg atgtttgaaa agtcgggtcga 300
tgtcatgggt gtgttaactca tctatctat cattaaactc atgggcacaa gttatgcaa 360
acgaatccag cagcggttga actcagagga gaaaactaaa taagttaga aagtttttaa 420
ctgcagaaat tggagtgat gggttctgcc ttatatggg aggaactcaa gccgggaagg 480
aaaattccct ttt 493

```

```

<210> 522
<211> 324
<212> DNA
<213> Homo sapiens

```

```

<400> 522
tagaagagct aacctcacac tcattccact ctaaaactat tgattacaaca ctgattttac 60
atccacacaa gtgaaatctt gatagttggg tgtaaaaaag agagtaaatg agatttcaga 120
gtagttgggg ttgctactat ttcaattttta attcttttag ttttgttaag taacaaactc 180
aagcattata gatgatcttc tttttactac tgaactaatg aagccttttt cattgcatta 240
aagttgtgtc ttgtcatggt gtgttacttc atctatctc tcattaactc catggcacia 300
agttatgcca aacgaatcca gcag 324

```

<210> 523  
 <211> 456  
 <212> DNA  
 <213> Homo sapiens

<400> 523  
 gaataacagc tgctctactt acctttttac cttttgatca accctgattt taacaaaagt 60  
 aaatcatttc ttaatttttg attcatcaga atgcaatagt tggctaagt tccttttttag 120  
 tgctgtcccc ggcataaggto catctctgca gaagccattt caggagatcc tggaggctca 180  
 acggcagaag cttcaccaca aaagcgaaat gggcacacca cagggagaaa actggttgtc 240  
 ctggatgttt gaaaagttgg tcgttgatcat ggtgtgttac ttcattctat ctatcattaa 300  
 ctccatggca caaagtatat ccaaacgaat ccagcagcgg ttgaactcag aggagaaaaac 360  
 taaataagta gagaaaagttt taaactgcag aaattggagt ggatgggttc tgccttaatt 420  
 gggaggactc caagccggga aggaaaattc cctttt 456